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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. 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: additional credit in English, or French as a second language,** or a Native language, or a classical or an international language, or social sciences and the humanities, or Canadian and world studies, or guidance and career education, or cooperative education***

Group 2: additional credit in health and physical education, or the arts, or business studies, or French as a second language,** or cooperative education***

Group 3: additional credit in science (Grade 11 or 12), or technological education, or French as a second language,** or computer studies, or cooperative education***

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

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

***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. The 12 optional credits may include up to 4 credits earned through approved dual credit courses.

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 and 10
- Essential History, Grade 10
- French, Grade 9

Course Coding System

Courses are identified using a six-character code: The first five characters are designated by the Ministry of Education. The sixth character is used by the school to identify a specific focus of the course.

| 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 "L, 4" Locally Developed Compulsory "3, 8" Locally Developed Optional | "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 using the letters A, B, C, D.

** In the case of a locally developed course the fifth character is usually a number.

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 Continuing Education classes. Contact the Guidance or Special Education departments in a secondary school 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 9, 10 and 11. These courses offer students a means of transferring from one type of course to another in the event that their interests or goals change.

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

Optional Credit: Locally Developed Courses

The following is available as locally developed optional credit courses.

- Sustainable Living, Grade 10
- Crimes Against Humanity: Historical and Contemporary Implications, Grade 11
- Horticulture, Grade 10
- Landscape Technologies, Grades 11 and 12

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.

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 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 the Ontario Student Transcript. Full disclosure does not apply to Grade 9 or 10 courses. 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.

Mature Student Prior Learning Assessment and Recognition

Prior Learning Assessment and Recognition (PLAR) is available to mature students (eighteen years of age and over) who are returning to school to earn a diploma after being out of school for at least one year. For further information contact your guidance counsellor.

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.wrdsb.elearn.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 night school, summer school and daytime classes. 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 or improve achievement in a course. See your guidance counsellor for further details or visit www.wrdsb.on.ca

Credit Recovery

Students who have completed an Ontario Ministry of Education approved course and received a failing grade may be approved by the school’s Student Success Team to recover the course through the credit recovery process. Students may only recover the credit of the actual course failed which limits them to the same type, grade and level. Students who withdraw from a course are not eligible to recover it through the credit recovery process.

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.

Each secondary school has a Guidance Department that is equipped with resources and information materials related to careers and education opportunities.

The “Success it’s up to YOU” website www.up2u.ca provides access to a multitude of career educational resources that are available to students and parents to assist them in planning for future pathways.

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 Plan

Special Education Plan, Programs and Services, 2007-2009 (Amended July 1, 2010) 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.

Special Education Programs and Services (Regulation 306 under the Education Act) and the Ministry of Education's 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.

A full description of Special Education programs and services can be found in the Special Education Plan available on the board website.

Special Education Advisory Committee

The Special Education Advisory Committee (SEAC) is responsible to the Waterloo Region District School Board and may make recommendations to the board in respect of any matter affecting the establishment, development and delivery of special education programs and services for exceptional pupils of the board. In addition, SEAC will participate in the review of the Special Education plan, participate in the budget process and review the financial statements as they relate to Special Education. SEAC consists of representatives of up to twelve community associations, two trustees and members of the Learning Services staff. Further information is available at www.wrdsb.ca SEAC does not deal with individual problem situations. SEAC members are able to bring the more general concerns of parents to the attention of the Board staff and Board Trustees. All these groups work together to find solutions, which meet the needs of our exceptional students.

Identification, Placement, Review Committee (IPRC) Parent Guide

Copies of the booklet Understanding the IPRC Process: A Parent Guide are available through the school office or in the Special Education section at www.wrdsb.ca. This guide reflects information contained in Regulation 181/98.

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 valuable 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 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.

Admission to the cooperative education program may include a thorough review of a student's interests and attendance record through an interview process.

Co-operative Education May Provide the Following Benefits:

- Practical work experience in areas that complement personal strengths, interests, and educational needs.
- Experience in a workplace not usually available to students prior to formal training.
- Confirm career decisions before starting post-secondary education.
- Establish contacts in the workplace for networking opportunities.
- Opportunity to develop marketable skills.

For further information, see your guidance counsellor.

Specialist High Skills Major (SHSM)

A Specialist High Skills major (SHSM) is a type of ministry-approved specialized program. This program provides an opportunity for students to focus on knowledge and skills that are relevant to a specific sector. As well, students work towards earning certifications in the SHSM sector while completing their Ontario Secondary School Diploma (OSSD) requirements.

Every SHSM includes the following five components: i) a package of required credits that constitute a pathway to one of four destinations (i.e., apprenticeship, college, university, workplace); ii) sector certifications; iii) experiential learning; iv) use of the Ontario Skills Passport; and v) "reach ahead" opportunities, which allow students to experience learning in their intended postsecondary destination.

SHSM programs concentrating on various sectors, including **Arts and Culture, Health and Wellness, Information and Communications Technology, Environment, Sports* and Transportation** are available in the Waterloo Region District School Board. For sector program availability and additional information, please contact your guidance counsellor.

* Subject to Ministry approval.

Dual Credits

Dual Credits offer students the opportunity to earn secondary and post-secondary credits at the same time.

The Waterloo Region District School Board offers 3 types of Dual Credits:

1. Advanced Standing: credits delivered fully in the secondary school
2. College Delivered Workplace: credits delivered partially or completely on the college campus
3. College Delivered Apprenticeship: credits delivered partially or completely on the college campus (Refer to **page 8** “Ontario Youth Apprenticeship Program” for additional details.)

Dual Credits are available to students in each of the four pathways: apprenticeship, college, university and workplace.

1. Advanced Standing Dual Credits

Advanced Standing Dual Credits are courses that have secondary school curriculum aligned with specified university or college courses. Students successfully completing the Advanced Standing Dual Credit course requirements which include a standardized assessment will receive both the secondary school credit and the specified university or college credit. The following chart indicates the courses currently available as Advanced Standing Dual Credits.

Advanced Standing University Dual Credits

| Subject | Course Codes | University |
|--|------------------|----------------------------|
| Business Leadership: Management Fundamentals | BOH4UI BOH4UE | Wilfrid Laurier University |
| Analysing Current Economic Issues | CIA4UI CIA4UE | Wilfrid Laurier University |
| Earth and Space Science | SES4UI SES4UE | University of Waterloo |

Advanced Standing College Dual Credits

| Subject Area | Course Codes | College Credit | College |
|----------------------|--------------|------------------------------|---|
| Media (Film) | AWR4MI | Introduction to Media | Conestoga College Institute of Technology and Advanced Learning |
| Accounting | BAT4MI | Accounting Fundamentals | |
| Canadian Law | CLU4UI | Introduction to Canadian Law | |
| Technological Design | TDJ4MI | Engineering Drawing | |
| Communications | TGJ4MI | Basic Design | |
| Manufacturing | TMJ4CI | Machining Fundamentals | |
| Computer Programming | ICS4UI | Introductory Programming | |

2. College Delivered Workplace Dual Credits*

College delivered workplace Dual Credits offer students the opportunity to experience college while earning secondary credits. Students enrolled in these credits will attend Conestoga College and be registered as a college student. Students participating in the Dual Credit Fundamentals programs will receive assistance (e.g., bus pass) for the commute to/from the college campus. There will be no cost to the student for tuition or textbooks.

College delivered Dual Credits are:

| Subject | Course Codes |
|---------------------------------|--------------|
| Brick and Masonry Fundamentals | YBRICK |
| Culinary (Cooking) Fundamentals | YCULIN |
| Early Childhood Education | YECEDU |
| Roofing Fundamentals | YROOFS |

* Pending Ministry approval and sufficient enrolment numbers.

Ontario Youth Apprenticeship Program

Ontario Youth Apprenticeship Program (OYAP)

The Ontario Youth Apprenticeship Program (OYAP) is a specialized co-operative education program that provides students with an opportunity to experience working in an apprenticeship sector. Students may choose to pursue an apprenticeship in a skilled trade while completing their Ontario Secondary School Diploma requirements. OYAP students will receive an OYAP certificate for completion of the Grade 11 and / or Grade 12 in-school and co-operative education courses.



Where is OYAP available?

OYAP is available at any WRSDB secondary school that offers the related in-school sector courses and facilities.

At what grade level is OYAP available?

Students may enroll in an OYAP program in either Grade 11 or Grade 12.

OYAP Program Requirements

Students must:

- be enrolled as a full-time student during the program must have completed the related in-school sector course
- have successfully completed all 16 Grade 9 and Grade 10 credits prior to start of the OYAP program
- be 16 years of age or older
- have an acceptable attendance record
- be responsible for their own transportation to and from the placement worksite
- obtain Student Accident insurance through Reliable Life or provide proof that he/she and the OYAP school have adequate coverage
- complete an OYAP application form

OYAP Application Process

Students:

- select OYAP at course selection time
- submit completed application form to their Guidance counsellor
- are interviewed by the appropriate staff member who oversees OYAP at their school

OYAP Program Opportunities.

There are 2 OYAP pathway opportunities to support student career choices.

1. OYAP Secondary School Based
Program is delivered completely by the student's home school and leads to apprenticeship opportunities through the regular apprenticeship process.
2. College Delivered Apprenticeship Dual Credits
Students wishing to pursue their apprenticeship may choose the College Delivered Apprenticeship Dual Credit program in Grade 12. This program allows the student to work in their chosen area, complete their apprenticeship Level 1 at Conestoga College while earning their Ontario Secondary School Diploma requirements.

College Delivered Apprenticeship Dual Credits*:

| Skilled Trade | Course Codes |
|---------------------------------------|--------------|
| Level 1 Automotive Service Technician | OYAUTO |
| Level 1 Education Assistant | OYEDAS |
| Level 1 Truck and Coach Technician | OYTRUC |
| Level 1 Cook | OYCOOK |
| Level 1 Tool Maker/ General Machinist | OYMETL |

*Pending Ministry approval and availability is subject to sufficient enrolment numbers.

OYAP Construction Trades – Home Building

This 4 credit, one or two-year program, may lead to an apprenticeship in one of the Construction trades for students as they participate in building a house from foundation to completion.

For additional information, see your Guidance counsellor or visit the website: goOYAP.com

E-Learning: Online Course Offerings

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. Attendance is taken on a weekly basis.

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?

In order to register for an online course, students need to contact their school guidance counsellor or visit www.wrdsb.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. In some cases final exams are written in the student's home school.

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.
- Login and Password Help is available by contacting your 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 contact a teacher?

Online teachers may be contacted by phone at the teacher's home school. As well, the teacher is available by email.

E-Learning: Online Course Offerings

| Grade 10 | | |
|--------------------------------|--------|---|
| Arts | ASM2OE | Media Arts |
| Canadian and World Studies | CHV2OE | Civics |
| Guidance and Career Education | GLC2OE | Career Studies |
| Grade 11 | | |
| Business | BTA3OE | Information & Communication Technology |
| | BDI3CE | Entrepreneurship |
| | BMI3CE | Marketing: Goods, Services, Events |
| Canadian and World Studies | CGG3OE | Travel and Tourism |
| | CLU3ME | Understanding Canadian Law |
| | CGF3ME | Physical Geography (French Immersion) |
| | CHA3UE | American History |
| Computer Science | ICS3CE | Computer Programming |
| | ICS3UE | Computer Science |
| English | EMS3OE | Media Studies |
| | ETC3ME | Canadian Literature |
| | ENG3CE | English |
| | ENG3UE | English |
| Health and Physical Education | PPZ3OE | Health for Life |
| Social Sciences and Humanities | HLS3OE | Living Spaces and Shelter |
| | HNC3OE | Fashion and Creative Expression |
| | HSP3ME | Introduction to Anthropology, Psychology, Sociology |
| | HPC3OE | Parenting |
| | HRT3ME | World Religions |
| Grade 12 | | |
| Arts | AVI4ME | Visual Arts |
| Business | BAT4ME | Accounting |
| | BBB4ME | International Business |
| | BDV4CE | Entrepreneurship |
| | BOH4ME | Business Leadership |

| | | |
|--------------------------------|--------|---|
| Canadian and World Studies | CGR4ME | Environment & Resource Management |
| | CHI4UE | Canadian History, Identity, Culture |
| | CHY4UE | World History: West and the World |
| | CIA4UE | Economic Issues |
| | CGW4UE | Canadian and World Issues |
| | CLN4UE | Law |
| Computer Science | ICS4CE | Computer Programming |
| | ICS4UE | Computer Science |
| English | ENG4CE | English |
| | ENG4UE | English |
| | EBT4OE | Business and Technological Communication |
| | ETS4UE | Studies in Literature |
| | EWG4UE | Writer's Craft |
| | | |
| Mathematics | MCV4UE | Calculus and Vectors |
| | MCT4CE | Mathematics for College Technology |
| | MDM4UE | Data Management |
| | | |
| Science | SBI4UE | Biology |
| | SCH4UE | Chemistry |
| | SES4UE | Earth and Space Science |
| | SNC4ME | Science |
| | SPH4CE | Physics |
| | SPH4UE | Physics |
| Social Sciences and Humanities | HHS4ME | Individuals and Families in a Diverse Society |
| | HNB4OE | Fashion Industry |
| | HSB4ME | Challenge and Change in Society |
| | HZT4UE | Philosophy: Questions and Theories |
| | | |

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 networking certification exam. | Application package completed in Grade 10. See your guidance 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 guidance counsellor or principal. |

Board Designated Magnet Programs cont...

| AREA | PROGRAM NAME | PROGRAM DESCRIPTION | ENTRY PROCESS |
|---|--|---|---|
| SPECIALIZED PROGRAMS | 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 10. See your guidance 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 | Students interested in a concentrated 7-credit certificate program where French is the language of instruction should enrol in this course. | Students enter from a Grade 8 French Immersion program. |
| | Fast Forward | A program with a hands-on with a hands-on approach to learning for students planning to move directly from secondary school to the workplace. Students work towards a secondary school diploma and/or sector certifications. Students in this program are at least two years out of phase and will be provided with targeted supports in the areas of literacy and numeracy. | Application package completed in Grade 8. See your guidance counsellor or principal. |
| | French Immersion | A 10-credit, French language experience for academic students. French Immersion provides the flexibility to experience a breadth of other course offerings in individual student timetables. Grade 8 students in French Immersion would be ideal candidates for this program | 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 |
| | Health Sector Pathways Program | This program assists students in developing the knowledge, skills, and work habits needed to pursue a post-secondary education program in health sciences or to enter directly into the health sector. Students benefit from experiential learning opportunities with health sector employers and/or post-secondary educational institutions | Application package completed in Grade 10. See your guidance counsellor or principal. |
| | 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 develop playing skills as well as study theory, listening, history and composition. | Application package completed in Grade 8. See your guidance counsellor or principal. |
| International Baccalaureate Studies (IB) | This enhanced program is infused with internationalism and offers students flexibility in terms of pace, depth and breadth of study. Upon successful completion of the program and the IB exams, students will earn the International Baccalaureate Diploma. | Application package completed in Grade 8. See your guidance counsellor or principal. | |

Board Designated Magnet Programs cont...

| | | | |
|-----------------------------|----------------------------------|---|--|
| 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. |
| | Z by the Y | Alternative high school transition program for students with attendance issues. | Students are referred by their school social worker and interviewed for the program. |

Board Designated Magnet Programs: School-Work Transition Program



Fast Forward is a four or five year school-work transition program with a focus on skills-based programming. Students have the opportunity to obtain experience in the workplace before leaving secondary school, meet the entry-level requirements of specific industries, and develop practical and employable skills. Students may earn recognized industry certificates along with their Ontario Secondary School Diploma or Ontario Secondary School Certificate.

The **FAST FORWARD** Program meets the needs of students who:

- Learn by doing
- Prefer learning to be relevant to their goals and their future
- Are capable of achieving success in an essential/workplace program
- Are typically 2 to 4 years out of phase
- Prefer to learn both inside and outside the classroom
- May benefit from support to improve literacy and numeracy skills
- May benefit from a variety of work experience opportunities
- May benefit from skills-based programming that focuses on developing practical and employability skills
- May benefit from building community connections and partnerships
- May benefit from support to earn the 30 required credits for an Ontario Secondary School Diploma (OSSD), or the 14-credit Ontario Secondary School Certificate (OSSC)
- May plan to move directly from secondary school to the workplace

Students in the FAST FORWARD program have an opportunity to:

- Develop the knowledge, skills, and attitudes that will allow them to move successfully from the classroom to the workplace
- Earn an Ontario Secondary School Diploma or an Ontario Secondary School Certificate
- Earn industry certificates that are recognized by employers
- Develop the Essential Skills identified by employers
- Complete credit courses in Grades 9 and 10 in which they are introduced to career options
- Complete credit courses in Grades 11 and 12 in which they explore a variety of career options
- Improve reading, writing and mathematics skills
- Participate in extensive “on the job” learning and “real life” work experiences

FAST FORWARD provides a variety of distinct programs, each one connecting the secondary school experience to a specific industry or sector. Areas of focus include:

- | | |
|---|---|
| <ul style="list-style-type: none"> • Construction Technology • Landscape and Horticulture • Manufacturing • Transportation Technology | <ul style="list-style-type: none"> • Hospitality and Tourism • Personal Care Services • Retail and Business Support Services |
|---|---|

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

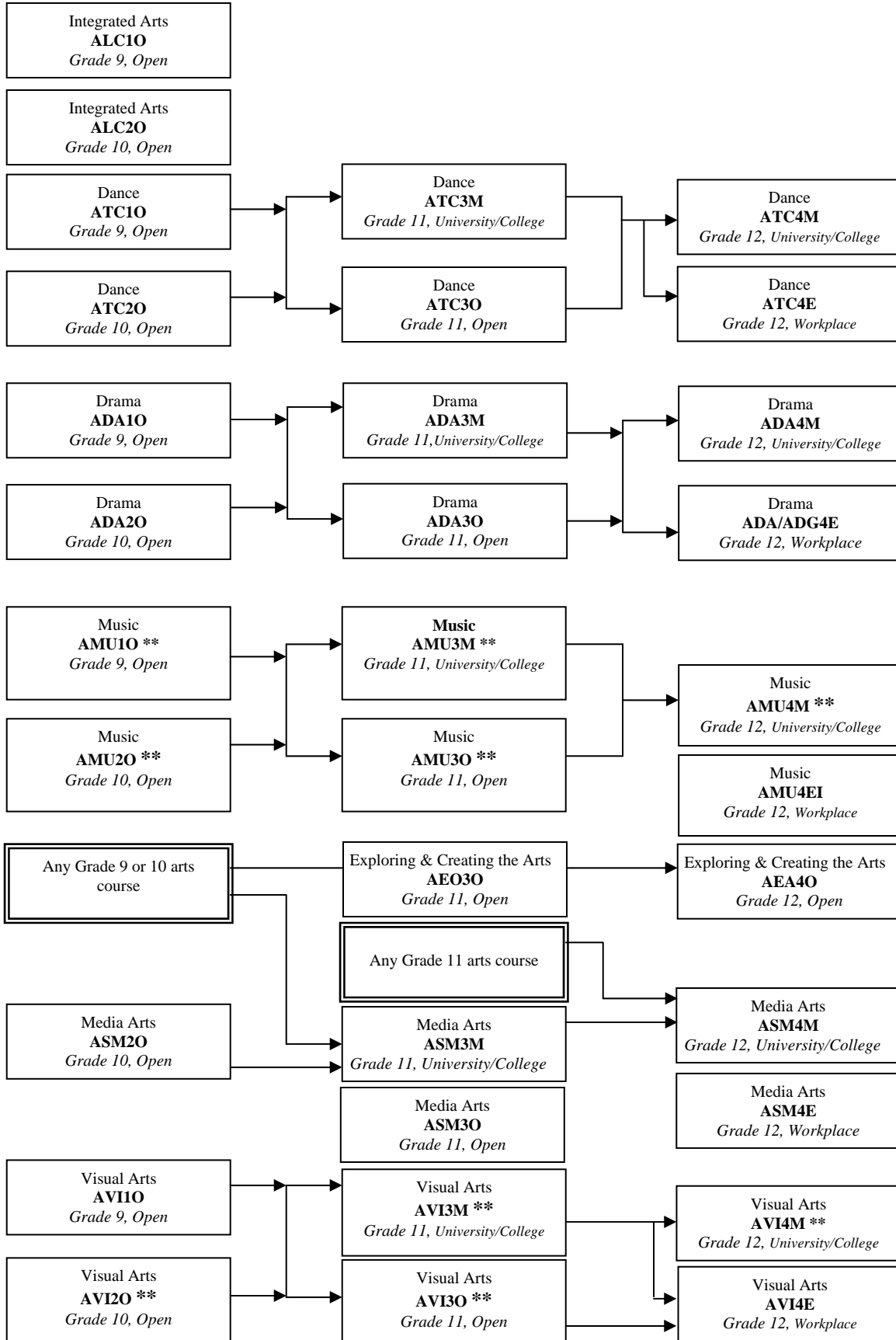
Cambridge: Glenview Park Secondary School
Jacob Hespeler Secondary School

Kitchener: Grand River Collegiate Institute
Kitchener-Waterloo Collegiate and Vocational School

Waterloo: Sir John A. Macdonald Secondary School

Contact your guidance counsellor for additional information.

Prerequisite Chart for The Arts



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

Course Descriptions for The Arts

Grade 9

ALC1OI

Integrated Arts, Grade 9, Open

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

ATC1OI

Dance, Grade 9, Open

This course gives students the opportunity to explore their technical and compositional skills by applying the elements of dance and the tools of composition in a variety of performance situations. Students will generate movement through structured and unstructured improvisation, demonstrate an understanding of safe practices with regard to themselves and others in the dance environment, and identify the function and significance of dance within the global community.

ADA1OI

Drama, Grade 9, Open

This course provides opportunities for students to explore dramatic forms and techniques, using material from a wide range of sources and cultures. Students will use the elements of drama to examine situations and issues that are relevant to their lives. Students will create, perform, discuss, and 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 creation and performance of music at a level consistent with previous experience and is aimed at developing technique, sensitivity, and imagination. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop an understanding of the conventions and elements of music and of safe practices related to music, and will develop a variety of skills transferable to other areas of their life.

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

| 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

**ALC2OI
Integrated Arts, Grade 10, Open**

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

**ATC2OI
Dance, Grade 10, Open**

This course emphasizes the development of students' technique and creative skills relating to the elements of dance and the tools of composition in a variety of performance situations. Students will identify responsible personal and interpersonal practices related to dance processes and production, and will apply technologies and techniques throughout the process of creation to develop artistic scope in the dance arts.

**ADA2OI, ADA2OF
Drama, Grade 10, Open**

This course provides opportunities for students to explore dramatic forms, conventions, and techniques. Students will explore a variety of dramatic sources from various cultures and representing a range of genres. Students will use the elements of drama in creating and communicating through dramatic works. Students will assume responsibility for decisions made in the creative and collaborative processes and will reflect on their experiences.

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

Arts

AMG2OI, AMH2OI, AMI2OI, AMI2OX, AMK2OI, AMK2OX, AMR2OH, AMR2OK, AMS2OI, AMV2OI, AMU2OI, AMP2OI

Music, Grade 10, Open

This course emphasizes the creation and performance of music at a level consistent with previous experience. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop their understanding of musical conventions, practices, and terminology and apply the elements of music in a range of activities. They will also explore the function of music in society with reference to the self, communities, and cultures.

| 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 | |

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

Visual Arts, Grade 10, Open

This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context.

| 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 | Visual Design | |
| AWL2OI | Drawing | This is a drawing course for advanced abilities. |
| AWA2OI | Crafts | |
| AWQ2OI | Photography | |
| AWM2OI | Drawing and Painting | |
| AWS2OI | Digital Media | |

ASM2OI

Media Arts, Grade 10, Open

This course enables students to create media art works using available and emerging technologies such as computer animation, digital imaging, video, and a variety of media. Students will explore the elements and principles of media arts, the connections between contemporary media art works and traditional art forms, and the importance of using responsible practices when engaged in the creative process. Students will develop the skills necessary to create and interpret media art works.

Grade 11

ATC3MI

Dance, Grade 11, University/College Preparation

This course emphasizes the development of students' artistry, improvisational and compositional skills, and technical proficiency in global dance genres. Students will apply dance elements, techniques, and tools in a variety of ways, including performance situations; describe and model responsible practices related to the dance environment; and reflect on how the study of dance affects personal and artistic development. *Prerequisite: Dance, Grade 9 or 10, Open*

ATC3OI

Dance, Grade 11, Open

This course emphasizes the development of students’ movement vocabulary relating to global dance genres, and of their understanding of the elements of dance and the tools of composition in a variety of performance situations. Students will research and explain how physical, intellectual, and artistic skills developed in dance can be applied in a wide range of careers. They will apply technologies and techniques throughout the process of creation and presentation, and reflect on how studies in the dance arts affect personal identity.

ADA3MI

Drama, Grade 11, University/College Preparation

This course requires students to create and perform in dramatic presentations. Students will analyse, interpret, and perform dramatic works from various cultures and time periods. Students will research various acting styles and conventions that could be used in their presentations, and analyse the functions of playwrights, directors, actors, designers, technicians, and audiences. *Prerequisite: Drama, Grade 9 or 10, Open*

ADA3OI

Drama, Grade 11, Open

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

ASM3MI

Media Arts, Grade 11, University/College Preparation

This course focuses on the development of media arts skills through the production of art works involving traditional and emerging technologies, tools, and techniques such as new media, computer animation, and web environments. Students will explore the evolution of media arts as an extension of traditional art forms, use the creative process to produce effective media art works, and critically analyse the unique characteristics of this art form. Students will examine the role of media artists in shaping audience perceptions of identity, culture, and community values. *Prerequisite: Media Arts, Grade 10, Open, or any Grade 9 or 10 arts course*

ASM3OI, ASM3OF

Media Arts, Grade 11, Open

This course enables students to create media art works using available and emerging technologies such as computer animation, digital imaging, video, and a variety of media. Students will explore the elements and principles of media arts, the connections between contemporary media art works and traditional art forms, and the importance of using responsible practices when engaged in the creative process. Students will develop the skills necessary to create and interpret media art works.

| 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 provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers. *Prerequisite: Music, Grade 9 or 10, 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. |

Arts

AMG3OI, AMH3OH, AMH3OI, AMK3OI, AMR3OH, AMR3OK, AMU3OI, AMV3OI, AMM3OI

Music, Grade 11, Open

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

| 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 the visual arts, such as drawing, painting, sculpture, photography, printmaking, collage, and/or multimedia art. Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. Students will also explore works of art within a personal, contemporary, historical, and cultural context.

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

AVI3MI, AWN3MI, AWQ3MI, AWT3MI, AWS3MI, AWL3MI

Visual Arts, Grade 11, University/College Preparation

This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using emergent technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular artform (e.g. photography, video, computer graphics, information design).

Prerequisite: Visual Arts, Grade 9 or 10, Open

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

AEA3OI

Exploring and Creating the Arts, Grade 11 - Open

This course offers students the opportunity to explore connections between dance, drama, media arts, music, and/or visual arts. Students will use the creative process individually and/or collaboratively to produce integrated art works that draw on various disciplines, and they will critically analyse art works and determine how interpreting these works affects their own development. Students will develop responsible practices that are transferable beyond the classroom. They will explore solutions to integrated arts challenges and discover that art is everywhere, influencing and reflecting society.

Grade 12

ATC4MI

Dance, Grade 12, University/College Preparation

This course emphasizes the development of students' technical proficiency, fluency in the language of movement in global dance genres, and understanding of the dance sciences. Students will explain the social, cultural, and historical contexts of dance; apply the creative process through the art of dance in a variety of ways; and exhibit an understanding of the purpose and possibilities of continuing engagement in the arts as a lifelong learner. *Prerequisite: Dance, Grade 11, University/College Preparation*

ATC4EI

Dance, Grade 12, Workplace Preparation

This course enables students to develop performance and interpersonal skills through the study of dance. Students will apply the elements of dance and the tools of composition to develop a physical vocabulary that can be used to create and communicate through dance. Students will research and explain how physical, intellectual, and artistic skills developed in the dance arts are transferable to a wide range of careers and workplace environments. They will develop an understanding of practices associated with healthy living, the benefits of self-discipline, and the importance of continuing engagement in the arts. *Prerequisite: Dance, Grade 11, Open*

ADA4MI, ADF4MI

Drama, Grade 12, University/College Preparation

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

Prerequisite: Drama, Grade 11, University/College Preparation

| Code | Title | Additional Information |
|--------|------------------|------------------------|
| ADA4MI | Drama | |
| ADF4MI | Director's Craft | |

ADA4EI, ADG4EI

Dramatic Arts, Grade 12, Workplace Preparation

This course requires students to create and present a variety of dramatic works relevant to the workplace. Students will develop character both through hands-on experience and project-based learning to build trust and collaborative skills and develop self-confidence. Students will also explore skills related to the study of drama that can be applied in the workplace. *Prerequisite: Drama, Grade 11, Open*

| Code | Title | Additional Information |
|--------|---------------------------|------------------------|
| ADA4EI | Dramatic Arts | |
| ADG4EI | Acting / Improvisation | |

AEA4OI

Exploring and Creating the Arts, Grade 12 - Open

This course offers students the opportunity to explore connections between dance, drama, media arts, music, and/or visual arts. Students will use the creative process individually and/or collaboratively to produce integrated art works that draw on various disciplines, and they will critically analyse art works and determine how interpreting these works affects their own development. Students will develop responsible practices that are transferable beyond the classroom. They will explore solutions to integrated arts challenges and discover that art is everywhere, influencing and reflecting society. *Prerequisite: Exploring & Creating the Arts, Grade 11, Open*

ASM4MI

Media Arts, Grade 12, University/College Preparation

This course emphasizes the refinement of media arts skills through the creation of a thematic body of work by applying traditional and emerging technologies, tools, and techniques such as multimedia, computer animation, installation art, and performance art. Students will develop works that express their views on contemporary issues and will create portfolios suitable for use in either career or postsecondary education applications. Students will critically analyse the role of media artists in shaping audience perceptions of identity, culture, and community values. *Prerequisite: Media Arts, Grade 11, University/College Preparation*

Arts

ASM4EI

Media Arts, Grade 12 – Workplace Preparation

This course focuses on a practical approach to a variety of media arts challenges specific to the interests of the student and provides students with opportunities to examine media arts in relationship to the world of work. Students will develop works that express their views on contemporary issues and will create portfolios suitable for use in postsecondary work experiences. Students will critically analyse the role of media artists in shaping audience perceptions of identity, culture, and community values, particularly within the context of the workplace. *Prerequisite: Media Arts, Grade 11, Open*

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

Music, Grade 12, University/College Preparation

This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music. Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyse how to apply skills developed in music to their life and careers. *Prerequisite: Music, Grade 11, University/College Preparation*

| Code | Title | Additional Information |
|--------|---------------------|---|
| AMH4MI | Stage – Band Music | |
| AMI4MI | Instrumental - 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 | |

AMU4EI

Music, Grade 12, Workplace Preparation

This course provides students with the fundamental knowledge and skills needed to succeed in the music workplace. Students will, at a level consistent with previous experience, perform appropriate musical works. Independently and collaboratively, students will use current technology and the creative and critical analysis processes to plan, produce, and market music presentations that reflect a broad spectrum of workplace contexts. In addition, students will explore ethical and safe practices related to music. *Prerequisite: Music, Grade 11, Open*

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

Visual Arts, Grade 12, University/College Preparation

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

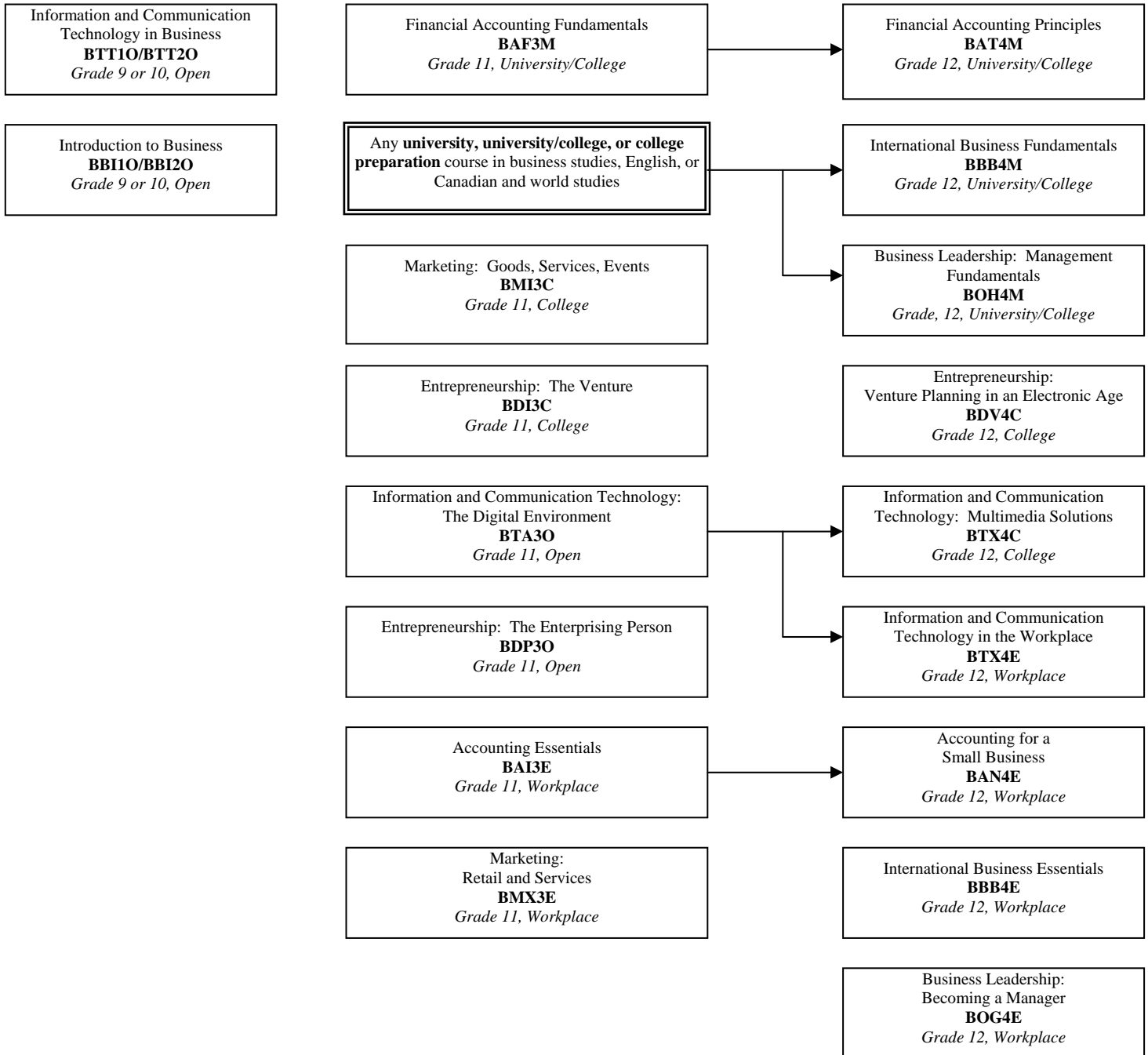
| Code | Title | Additional Information |
|--------|----------------------------------|------------------------|
| AVI4MI | Visual Arts | |
| AWD4MI | Visual Design | |
| AWE4MI | Information/ Consumer Design | |
| AWR4MI | Film Video | |
| AWS4MI | Digital Media | |
| AWU4MI | Cultural / Historical Studies | |
| AWQ4MI | Photography | |
| AWP4MI | Sculpture | |
| AWA4MI | Crafts | |
| AWM4MI | Drawing and Painting | |
| AWT4MI | Non-Traditional | |

AVI4EI

Visual Arts, Grade 12, Workplace Preparation

This course focuses on a practical approach to a variety of art and design projects related to the workplace. Students will use the creative process to produce a traditional and/or digital portfolio of their work in a variety of media. Students may focus on various aspects of visual arts, including advertising, ceramics, fashion design, graphic arts, jewellery design, and/or web design. *Prerequisite: Visual Arts, Grade 11, Open*

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. |

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*

Business Studies

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*

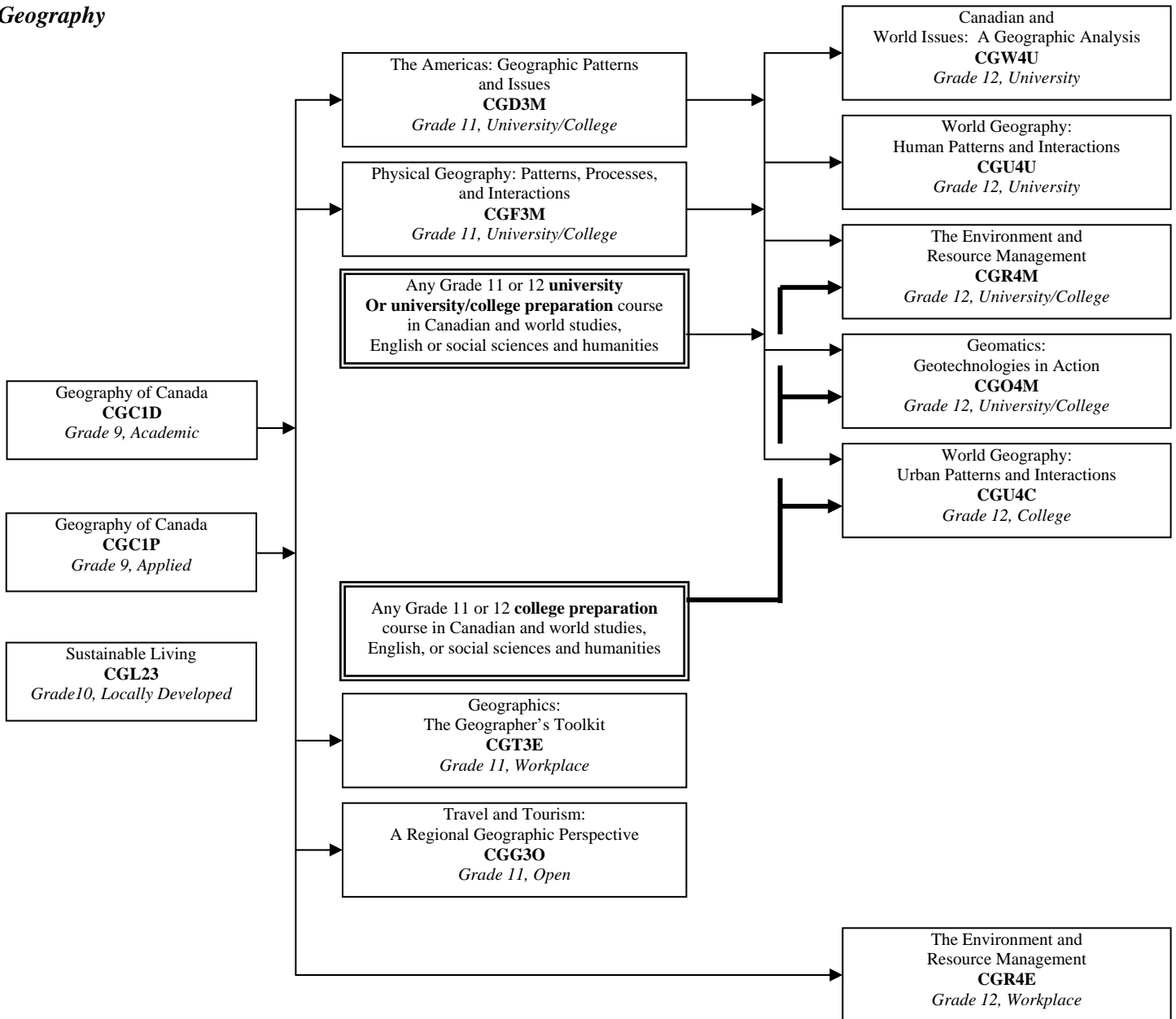
BOG4EI

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.

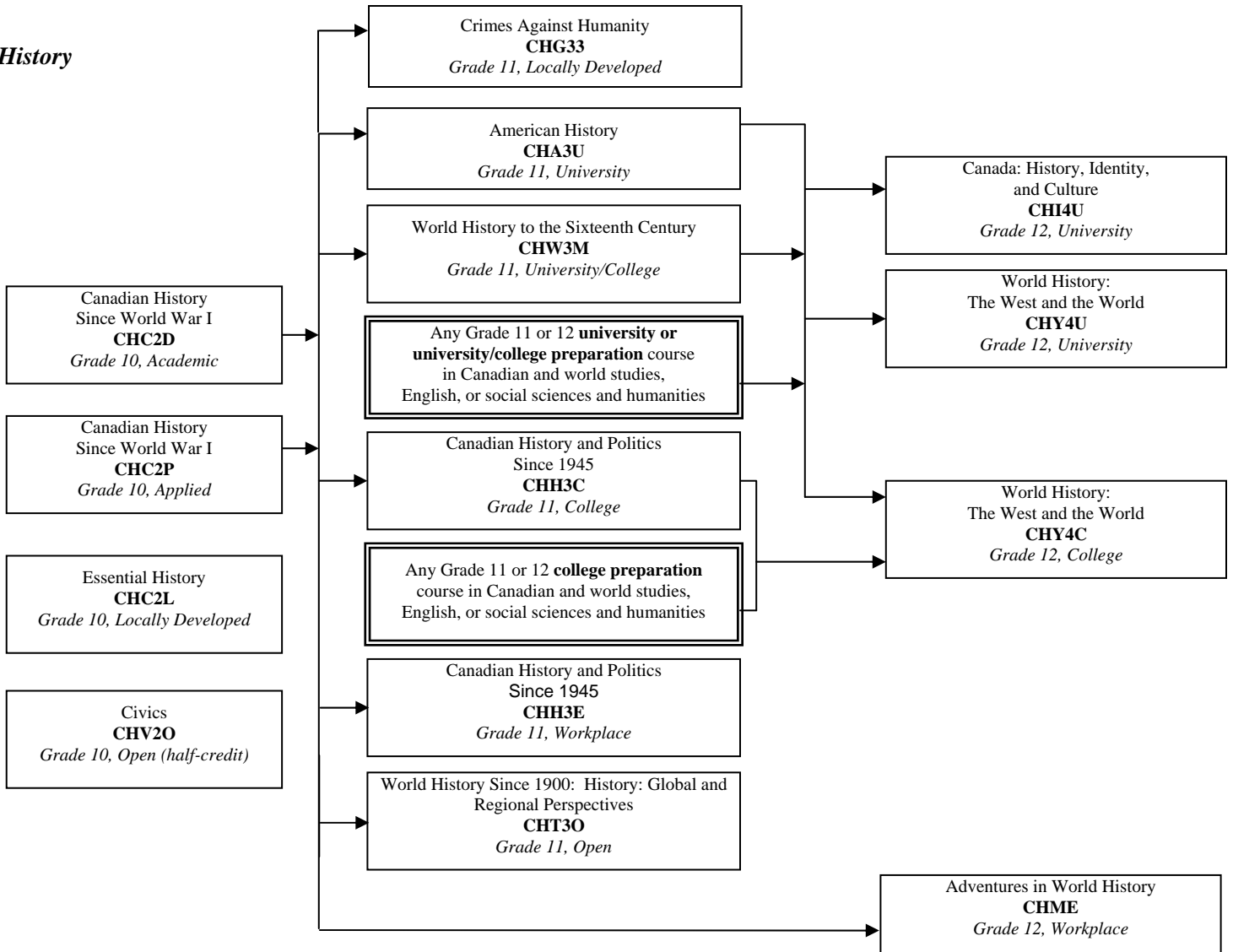
Prerequisite Charts for Canadian and World Studies

Geography



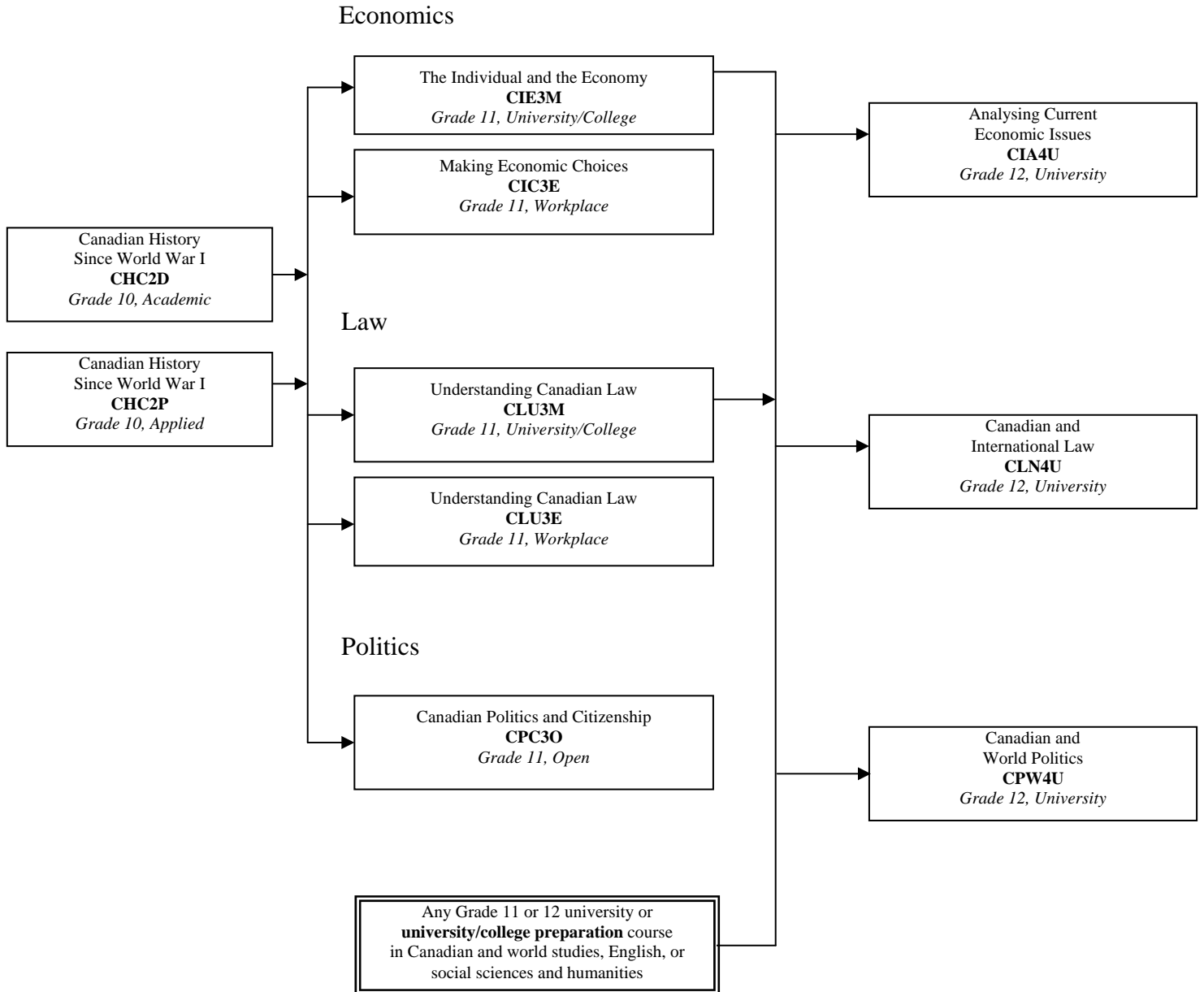
Prerequisites Chart for Canadian and World Studies

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. |

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 practice 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*

Canadian and World Studies

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*

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*

CHG33I**Crimes Against Humanity: Historical and Contemporary Implications, Grade 11, Locally Developed**

This course investigates examples of genocide in the twentieth and twenty-first centuries, including the Holocaust, Armenia, and Rwanda. Students will investigate the terms genocide, crimes against humanity, and war crimes and explore them through the lens of historical analysis. Students will examine identity formation and how "in groups" and "out groups" are created, including an analysis of how bias, stereotypes, prejudice, and discrimination impact on various groups. As the course unfolds students will be challenged to draw appropriate connections between the history of genocide and Canadian history and between the lives of the people they are investigating and their own lives. Students will use critical thinking skills to look at the themes of judgment, memory, and legacy and will evaluate the ways in which active citizens may empower themselves to stop future crimes against humanity. Throughout the course, students will gain an understanding of the role of perpetrator, victim, bystander, rescuer, opportunist, and resister.

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*

Canadian and World Studies

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*

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**

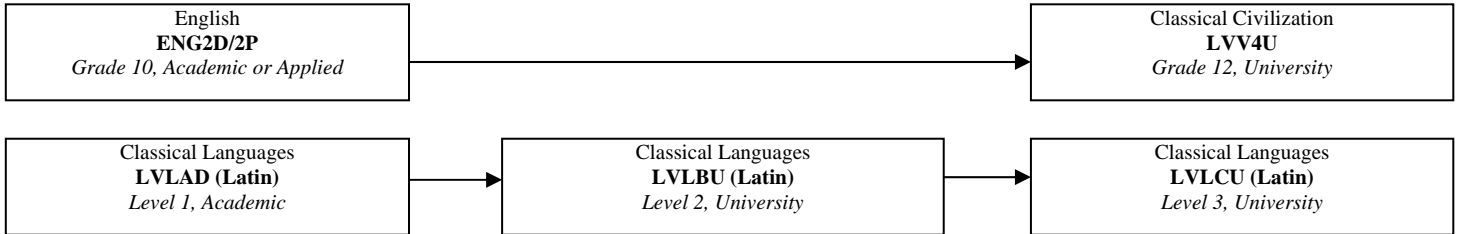
This course examines elements of Canadian and international law in social, political, and global contexts. Students will study the historical and philosophical sources of law and the principles and practices of international law and will learn to relate them to issues in Canadian society and the wider 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**

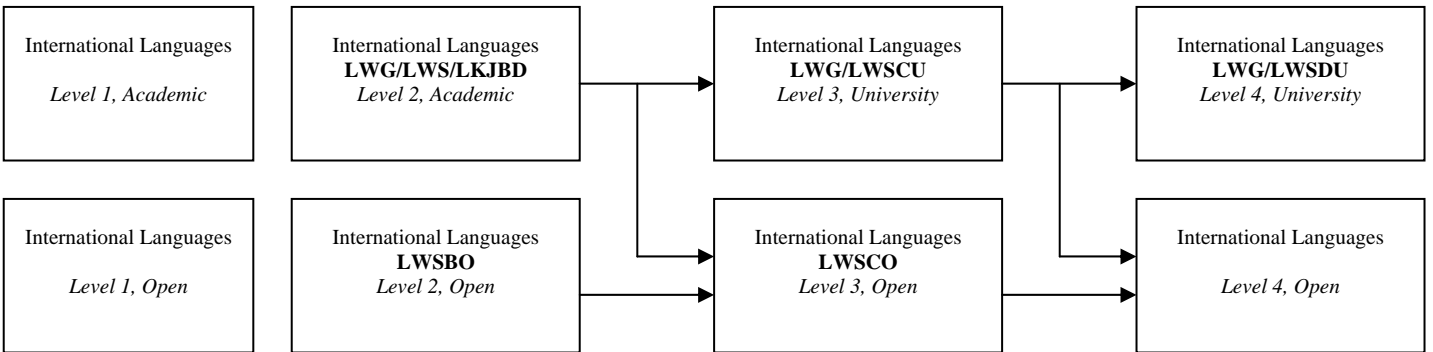
This course examines Canadian and world politics from a variety of perspectives. Students will investigate the ways in which individuals, groups, and states work to influence domestic and world events, the role of political ideologies in national and international politics, and the dynamics of international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

Classical Studies and International Languages

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 | |

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.

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*

English

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*

EBT40I**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*

OLC40I**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

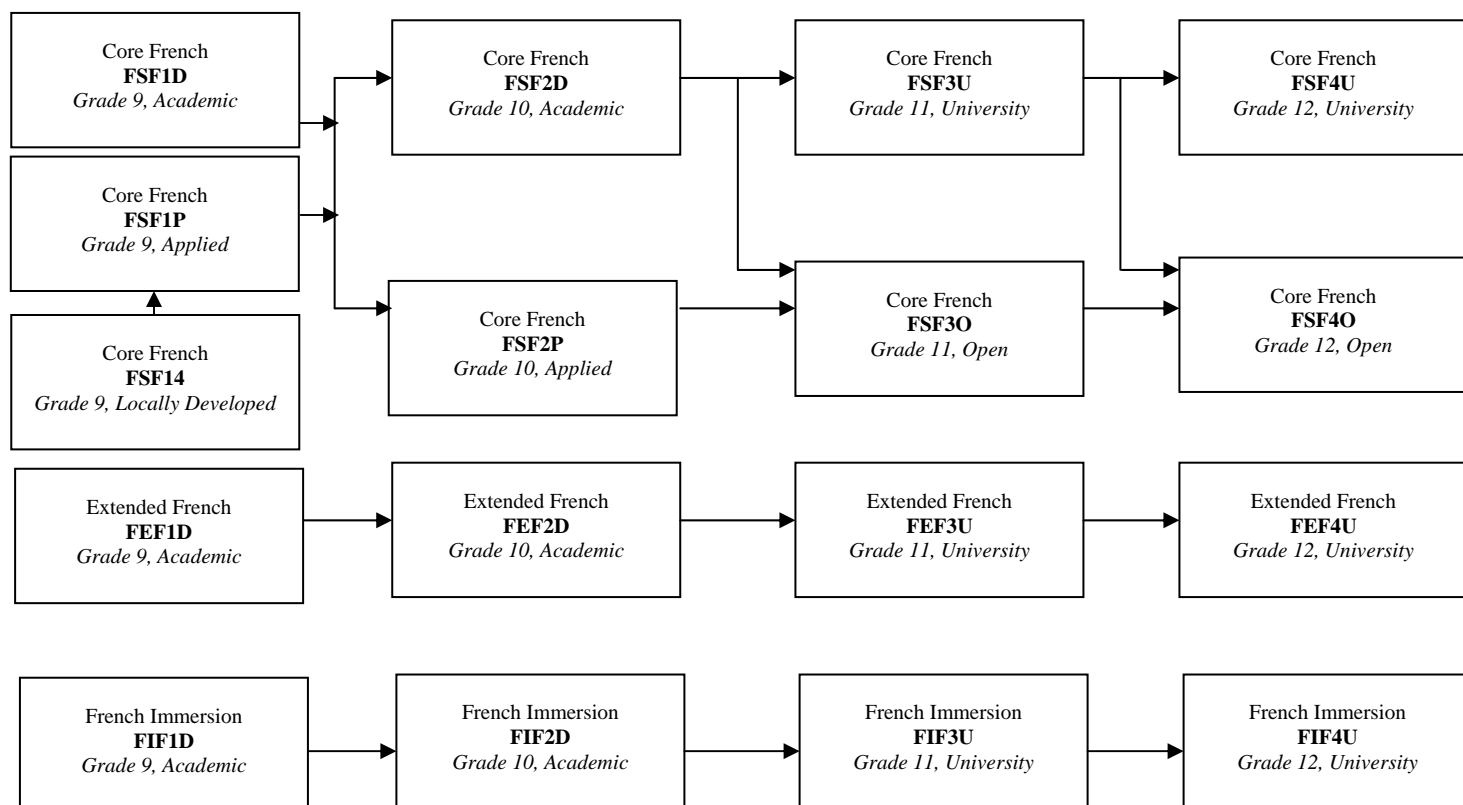
This course prepares students to use English with increasing fluency and accuracy in classroom and social situations and to participate in Canadian society as informed citizens. Students will develop the reading, writing, and oral presentation skills required for success in all school subjects. They 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.

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*

FSF14I**French, Grade 9, Locally Developed**

This course builds on students' previous education and language knowledge to introduce French. Students will develop the ability to use oral and written French for daily needs, acquire basic conversation skills and vocabulary, and use simple sentence patterns orally and in writing. The thematic approach will focus on work applications and fundamental social skills.

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*

French as a Second Language

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: Grade 11 French Immersion, 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 Grade 12, 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.

Guidance and Career Education

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. |

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

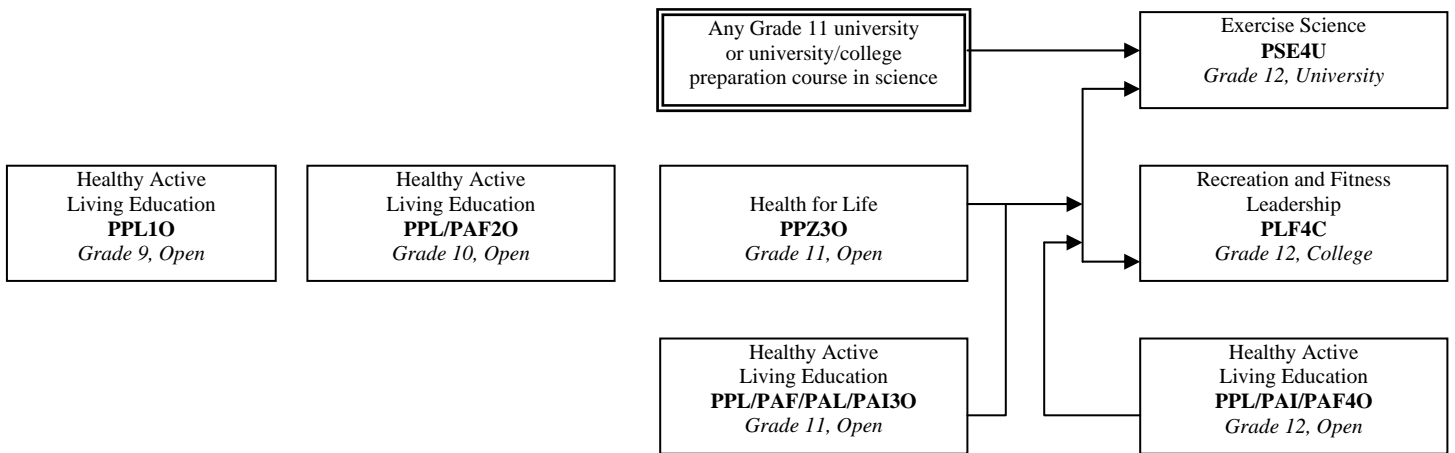
This course improves students' learning and personal management skills, preparing them to make successful transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal management techniques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

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 | |

Health and Physical Education

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. | |

Interdisciplinary Studies

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

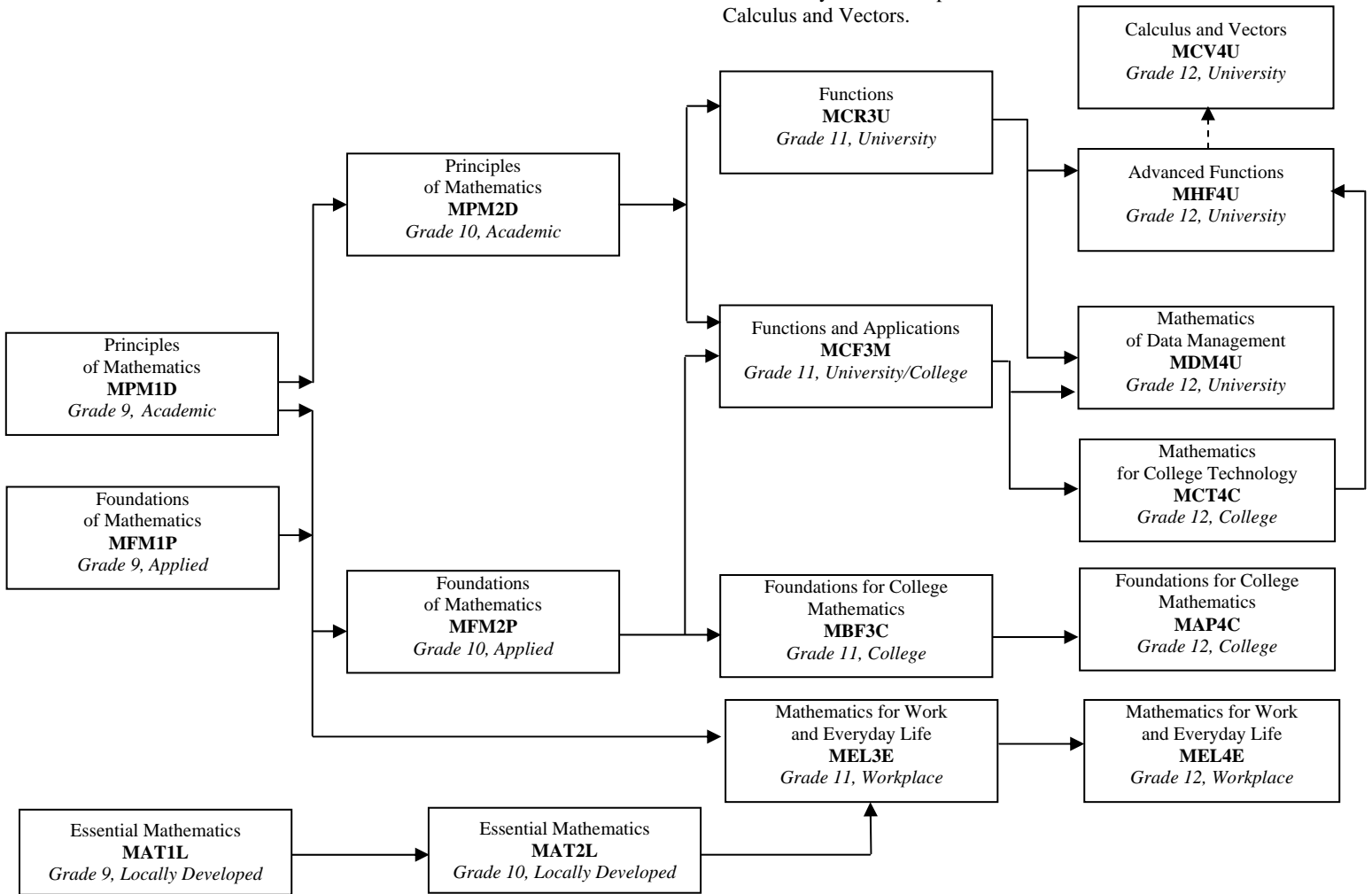
Interdisciplinary Studies, Grade 12, University

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*

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*

Mathematics

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

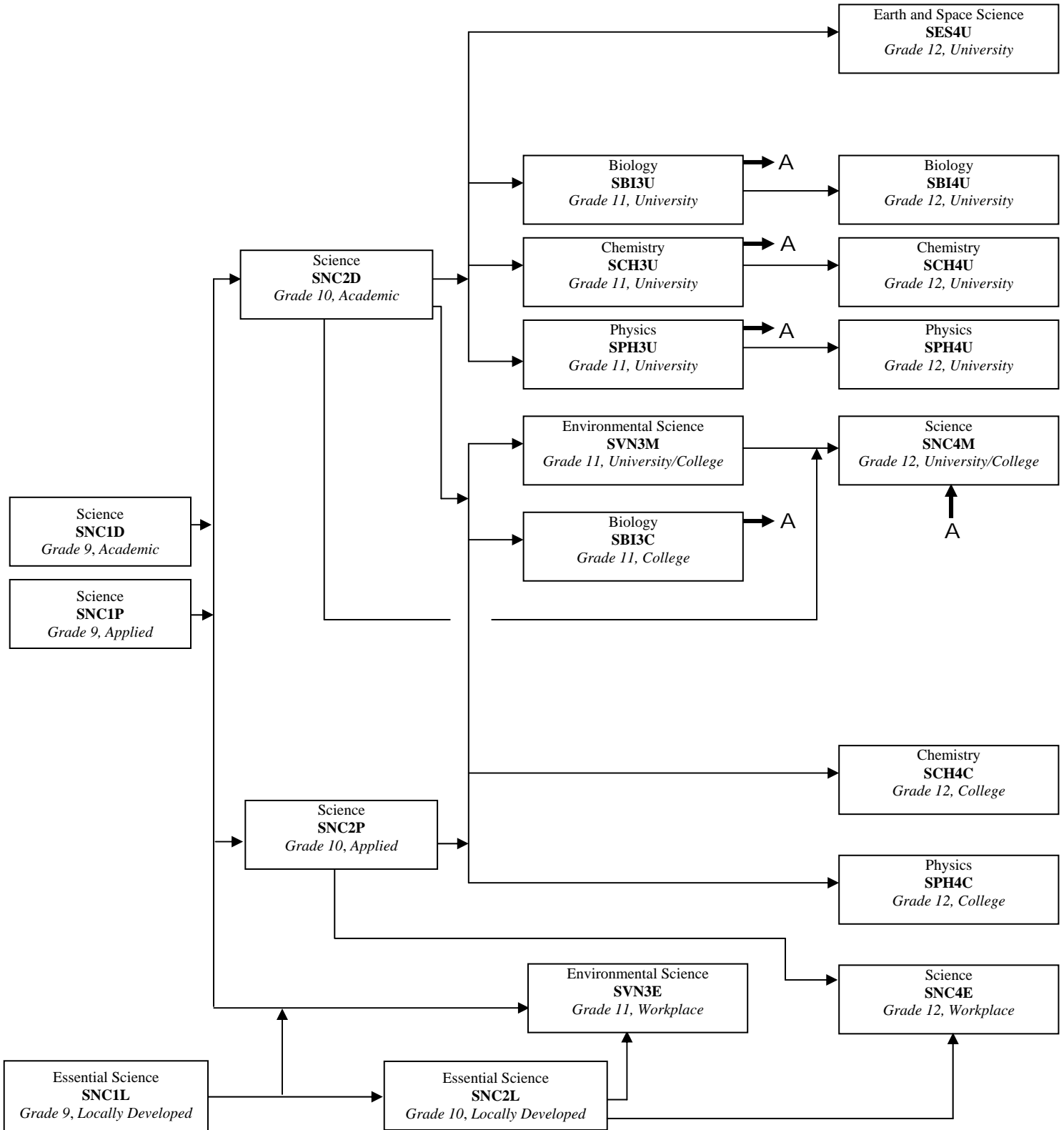
This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. 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 develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems; the structure and properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.

| 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 develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to relate science to technology, society, and the environment. Throughout the course, students will develop their skills in the processes of scientific investigation. Students will acquire an understanding of scientific theories and conduct investigations related to sustainable ecosystems; atomic and molecular structures and the properties of elements and compounds; the study of the universe and its properties and components; and the principles of electricity.

| 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. **Prerequisite:** *Grade 9 Essential Science, Locally Developed*

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, and to apply their knowledge of science in real-world situations. Students are given opportunities to develop further practical skills in scientific investigation. Students will plan and conduct investigations into everyday problems and issues related to human cells and body systems; chemical reactions; factors affecting climate change; and the interaction of light and matter. *Prerequisite: 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 enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid–base reactions; forces that affect climate and climate change; and the interaction of light and matter. *Prerequisite: 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 that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields. *Prerequisite: Grade 10 Science, Academic or Applied*

SBI3UI**Biology, Grade 11, University Preparation**

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

SCH3UI**Chemistry, Grade 11, University Preparation**

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

Science

SPH3UI

Physics, Grade 11, University Preparation

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

SVN3EI

Science, Grade 11, Workplace Preparation

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in work and life after secondary school. Students will explore a range of topics, including the impact of human activities on the environment; human health and the environment; energy conservation; resource science and management; and safety and environmental responsibility in the workplace. Emphasis is placed on relevant, practical applications and current topics in environmental science, with attention to the refinement of students' literacy and mathematical literacy skills as well as the development of their scientific and environmental literacy. *Prerequisite: Science, Grade 9, Academic or Applied, or a Grade 9 or 10 locally developed compulsory credit (LDCC) course in science*

SVN3MI

Science, Grade 11, University/College Preparation

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas. *Prerequisite: 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 that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields. *Prerequisite: Grade 11 Biology, University*

SCH4CI

Chemistry, Grade 12, College Preparation

This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use a variety of laboratory techniques, develop skills in data collection and scientific analysis, and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and the effects of technological applications and processes on society and the environment. *Prerequisite: 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, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment. *Prerequisite: Grade 11 Chemistry, University*

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

This course develops students' understanding of Earth and its place in the universe. Students will investigate the properties of and forces in the universe and solar system and analyse techniques scientists use to generate knowledge about them. Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives. The course draws on biology, chemistry, physics, and mathematics in its consideration of geological and astronomical processes that can be observed directly or inferred from other evidence. *Prerequisite: 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 with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment. *Prerequisite: Grade 10 Science, Academic or Applied*

SPH4UI**Physics, Grade 12, University Preparation**

This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data relating to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment. *Prerequisite: Grade 11 Physics, University*

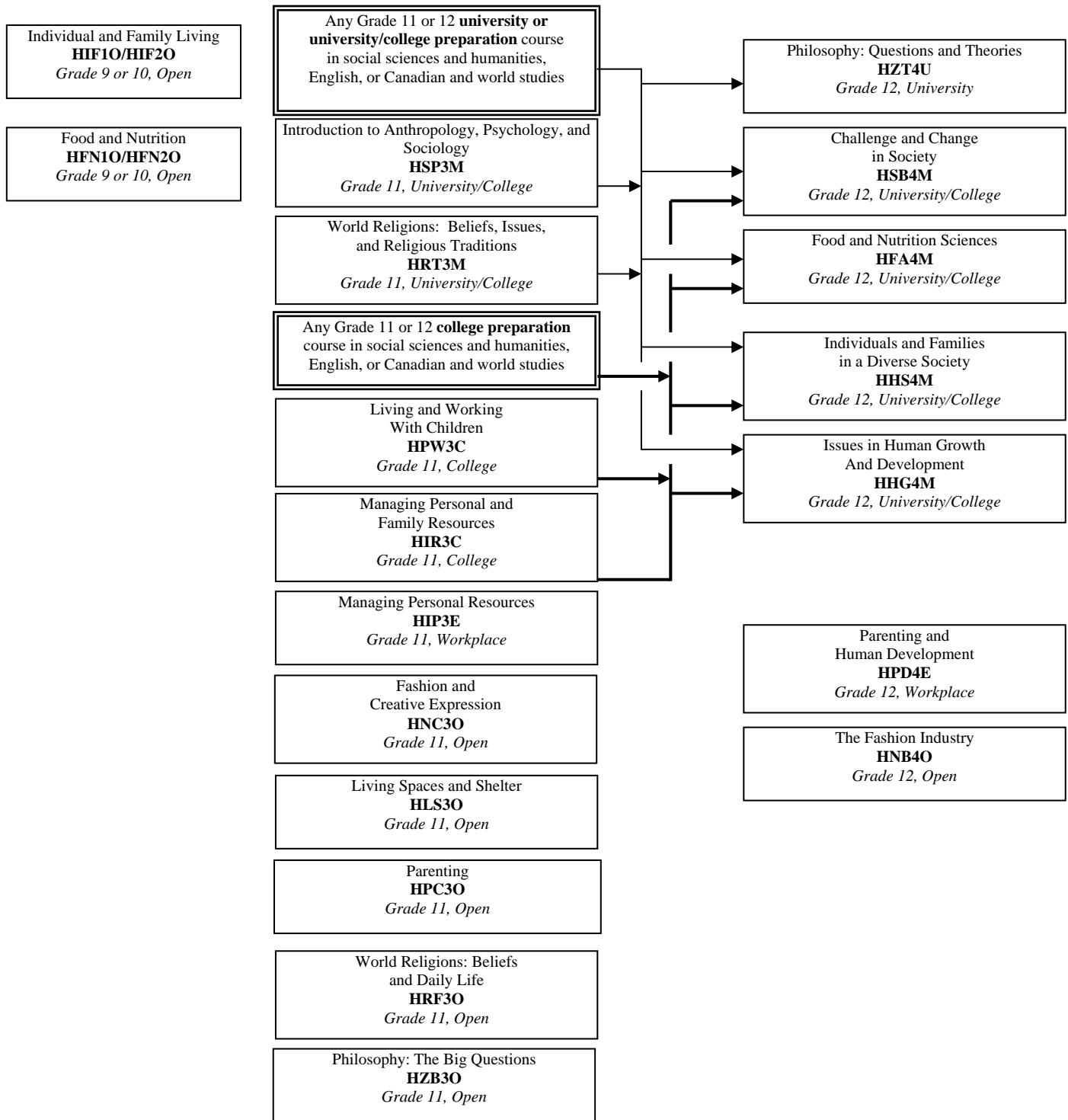
SNC4EI**Science, Grade 12, Workplace Preparation**

This course provides students with fundamental science knowledge and workplace skills needed to prepare them for success beyond secondary school. Students will explore hazards in the workplace, chemicals in consumer products, disease and its prevention, electricity at home and at work, and nutritional science. Emphasis is placed on current topics in science and relevant, practical activities that develop students' literacy and mathematical literacy skills and enhance their scientific literacy. *Prerequisite: Grade 10 Science, Applied, or a Grade 10 locally developed compulsory credit (LDCC) course in science*

SNC4MI**Science, Grade 12, University/College Preparation**

This course enables students, including those pursuing post-secondary programs outside the sciences, to increase their understanding of science and contemporary social and environmental issues in health-related fields. Students will explore a variety of medical technologies, pathogens and disease, nutritional science, public health issues, and biotechnology. The course focuses on the theoretical aspects of the topics under study and helps refine students' scientific investigation skills. *Prerequisite: Grade 10 Science, Academic, or any Grade 11 university, university/college, or college preparation course in science*

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.

Social Sciences and Humanities

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.

HZB30I**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

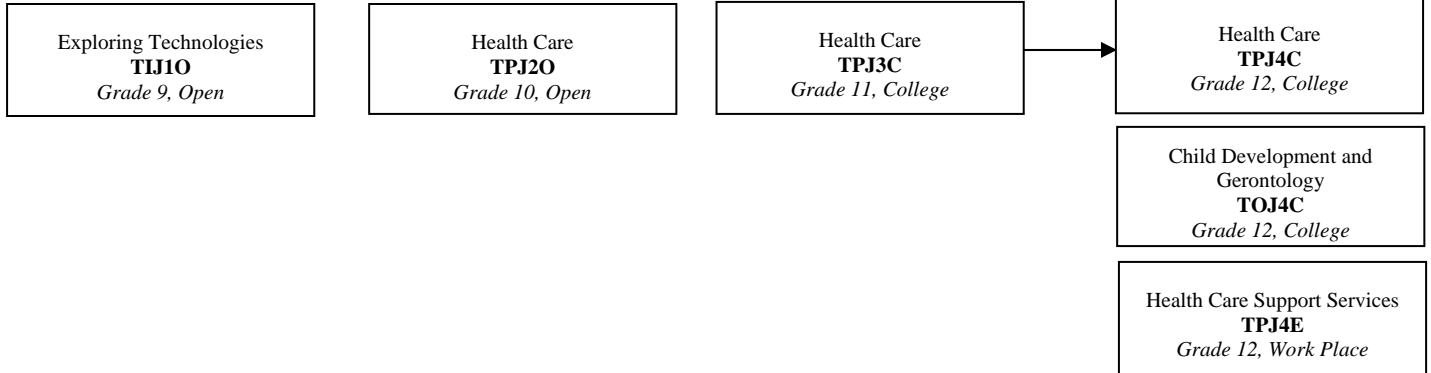
Philosophy: Questions and Theories, Grade 12, University Preparation

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*

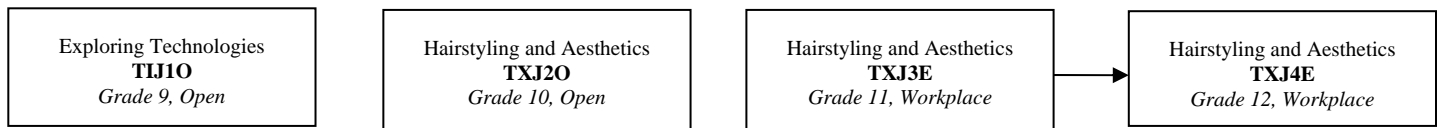
Prerequisite Charts for Technological Education

Broad-Based Technology

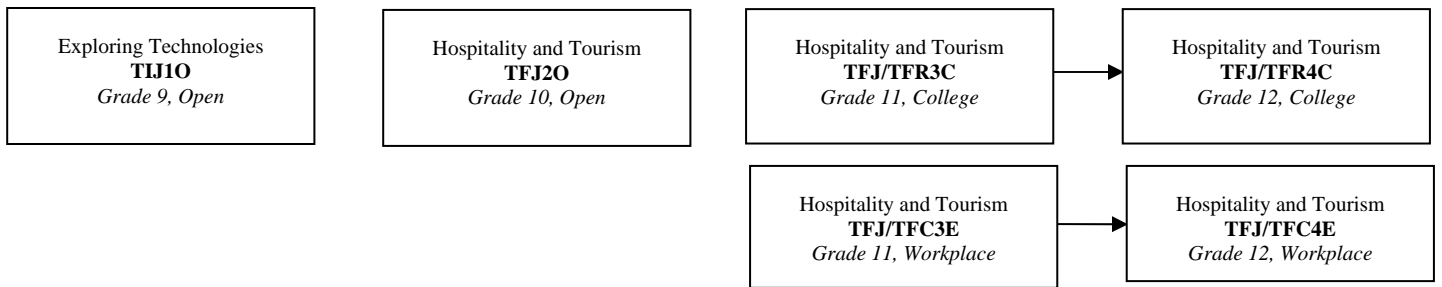
Health Care



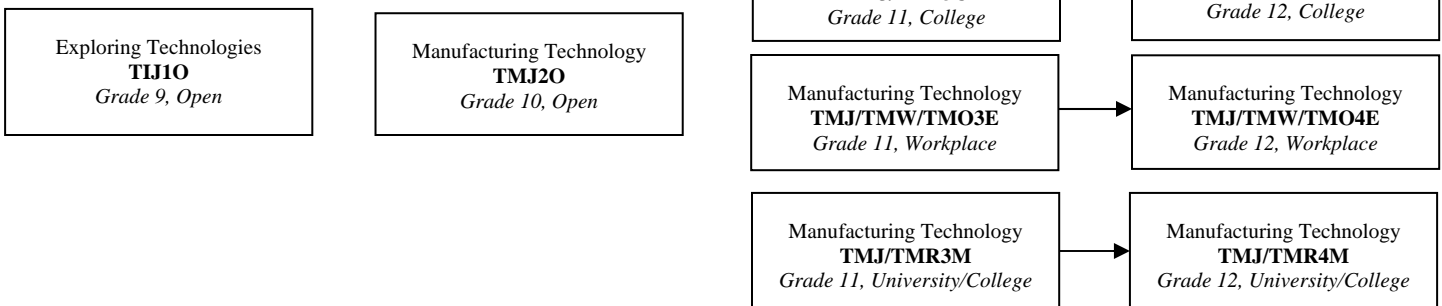
Hairstyling and Aesthetics



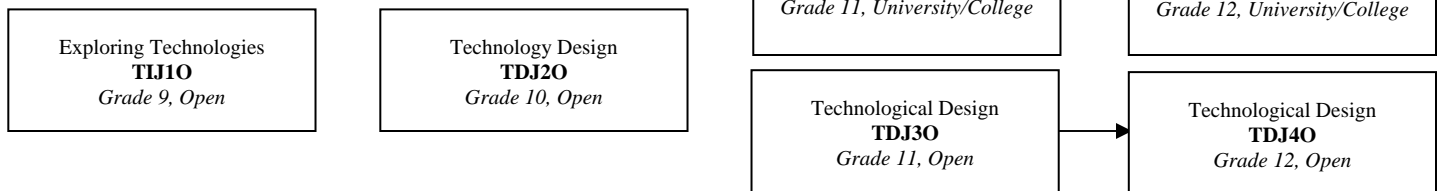
Hospitality and Tourism



Manufacturing Technology

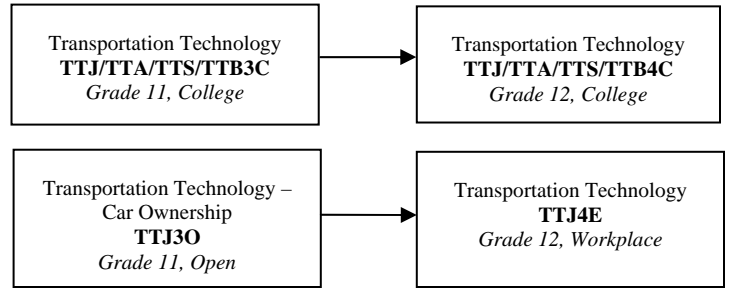
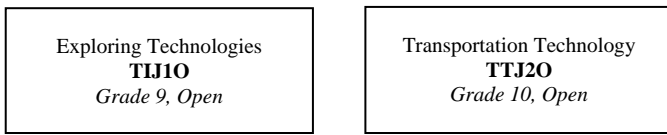


Technological Design

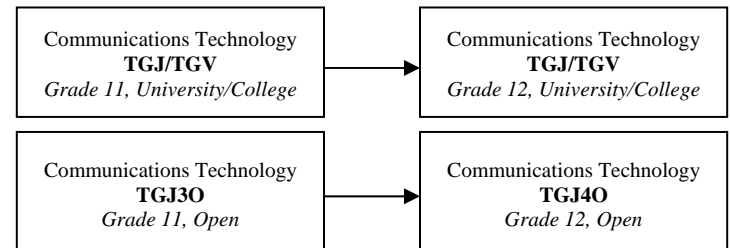
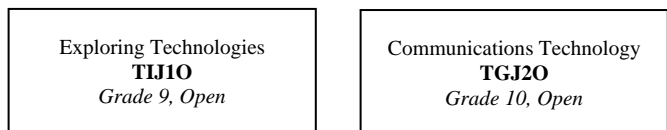


Prerequisite Charts for Technological Education

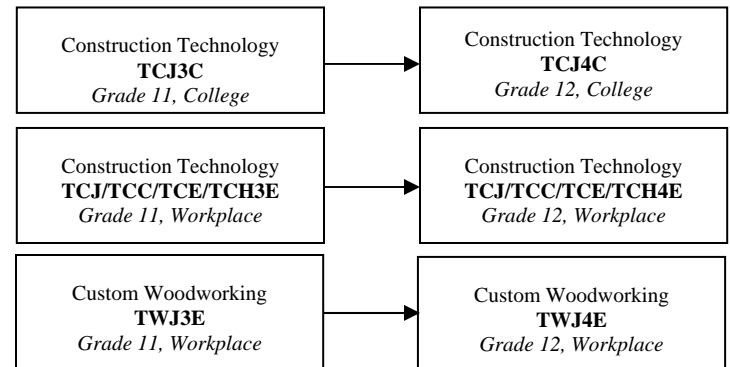
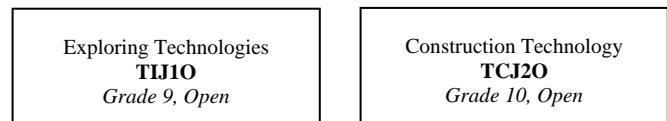
Transportation Technology



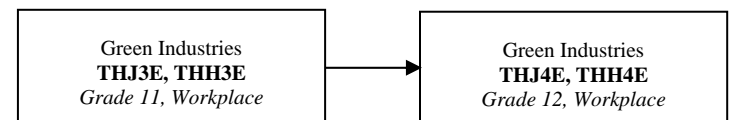
Communications Technology



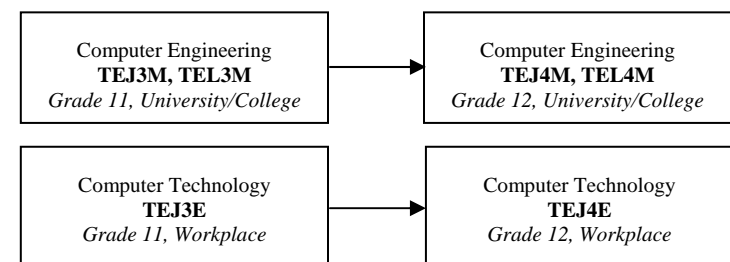
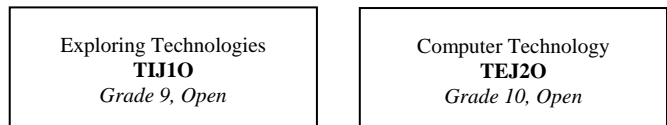
Construction Technology



Green Industries (Horticulture)



Computer Technology



Course Descriptions for Technological Education

- Note:**
1. A student **MUST** take the Broad Based course in the Technological program (indicated by an “T” as the sixth course code character) before or concurrently with an Emphasis course (indicated by an “X” as the sixth course code character).
 2. A student may earn a maximum of 3 credits, at each grade level and course type, in any of the technological education areas (i.e., communications technology, construction technology, health care, hospitality and tourism, manufacturing technology, technological design, transportation technology, computer technology, green industries, hairstyling and aesthetics).

Grade 9

TIJ1OI / TEJ1OI

Exploring Technologies, Grade 9, Open

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

| Code | Title | Additional Information |
|--------|-------------------------------|------------------------|
| TIJ1OI | Exploring Technologies | |
| TEJ1OI | Exploring Computer Technology | |

Grade 10

TEJ2OI

Computer Technology, Grade 10, Open

This course introduces students to computer systems, networking, and interfacing, as well as electronics and robotics. Students will assemble, repair, and configure computers with various types of operating systems and application software. Students will build small electronic circuits and write computer programs to control simple peripheral devices or robots. Students will also develop an awareness of environmental and societal issues related to the use of computers, and learn about secondary and postsecondary pathways to careers in computer technology.

TGJ2OI

Communications Technology, Grade 10, Open

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

TCJ2OI

Construction Technology, Grade 10, Open

This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and postsecondary pathways leading to careers in the industry.

Technological Education

TMJ2OI

Manufacturing Technology, Grade 10, Open

This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection moulding. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary and postsecondary pathways leading to careers in the industry.

THJ2OI (Horticulture and Landscape)

Green Industries, Grade 10, Open

This course introduces students to the various sectors of the green industries – agriculture, forestry, horticulture, floristry, and landscaping. Using materials, processes, and techniques commonly employed in these industries, students will participate in a number of hands-on projects that may include plant or animal propagation; production, maintenance, and harvesting activities; the development of floral or landscaping designs; and/or related construction activities. Students will also develop an awareness of environmental and societal issues related to green industry activities, learn about safe and healthy working practices, and explore secondary and postsecondary education and training pathways and career opportunities in the various industry sectors.

TDJ2OI

Technological Design, Grade 10, Open

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

TPJ2OI

Health Care, Grade 10, Open

This course introduces students to personal health promotion, child and adolescent health concerns, and a variety of medical services, treatments, and technologies. Students will become familiar with various instruments and equipment and will learn about human anatomy, organs, and body chemistry, as well as the effects that lifestyle choices can have on personal well-being. They will plan recreational activities for youth, perform a dietary analysis, and evaluate health care practices. Students will develop an awareness of environmental and societal issues related to health care and will explore secondary and postsecondary pathways leading to careers in the field.

TFJ2OI

Hospitality and Tourism, Grade 10, Open

This course provides students with opportunities to explore different areas of hospitality and tourism, as reflected in the various sectors of the tourism industry, with an emphasis on food service. Students will study culinary techniques of food handling and preparation, health and safety standards, the use of tools and equipment, the origins of foods, and event planning, and will learn about tourism attractions across Ontario. Students will develop an awareness of related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the tourism industry.

TXJ2OI

Hairstyling and Aesthetics, Grade 10, Open

This course presents hairstyling, make-up, and nail care techniques from a salon/spa perspective. Through a variety of school and community-based activities, students learn fundamental skills in hairstyling, giving manicures and facials and providing hair/scalp analyses, and treatments. Students also consider related environmental and societal issues and explore secondary and postsecondary pathways leading to careers in the field of hairstyling and aesthetics.

TTJ2OI

Transportation Technology, Grade 10, Open

This course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self-propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the transportation industry.

Grade 11

TEJ3MI, TEL3MX**Computer Engineering Technology, Grade 11, University/College Preparation**

This course examines computer systems and control of external devices. Students will assemble computers and small networks by installing and configuring appropriate hardware and software. Students will develop knowledge and skills in electronics, robotics, programming, and networks, and will build systems that use computer programs and interfaces to control and/or respond to external devices. Students will develop an awareness of environmental and societal issues related to the use of computers, and will learn about college and university programs leading to careers in computer engineering.

| Code | Title | Additional Information |
|--------|---------------------------------|--|
| TEJ3MI | Computer Engineering Technology | Recommended to be taken before or concurrently with emphasis courses |
| TEL3MX | Computer Engineering Technology | Electronics |

TEJ3EI**Computer Technology, Grade 11, Workplace Preparation**

This course enables students to develop knowledge and skills related to computer hardware, networks, operating systems, and other software. Students will use utility and application software and learn proper procedures for installing, maintaining, and troubleshooting computer systems and networks. Students will develop an awareness of environmental and societal issues related to the use of computers, and will learn about apprenticeships and other employment opportunities in the field of computer technology that they may choose to pursue after graduation.

TGJ3MI, TGV3MX**Communications Technology, Grade 11, University/College Preparation**

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

| Code | Title | Additional Information |
|--------|------------------------------------|--|
| TGJ3MI | Communications Technology | Recommended to be taken before or concurrently with emphasis courses |
| TGV3MX | Communications Technology Emphasis | TV, Video and Movie Production |

TGJ3OI**Communications Technology: Broadcast and Print Production, Grade 11, Open**

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

TCJ3CI**Construction Engineering Technology, Grade 11, College Preparation**

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

Technological Education

TCJ3EI, TCC3EX, TCE3EX, TCH3EX **Construction Technology, Grade 11, Workplace Preparation**

This course enables students to develop technical knowledge and skills related to carpentry, masonry, electrical systems, heating and cooling, and plumbing for residential construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment to design, lay out, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore postsecondary and career opportunities in the field.

| Code | Title | Additional Information |
|--------|----------------------------------|--|
| TCJ3EI | Construction Technology | Recommended to be taken before or concurrently with emphasis courses |
| TCC3EX | Construction Technology Emphasis | Carpentry |
| TCE3EX | Construction Technology Emphasis | Electrical Network Cabling |
| TCH3EX | Construction Technology Emphasis | Heating and Cooling |

TWJ3EI **Custom Woodworking, Grade 11, Workplace Preparation**

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

THJ3EI (Horticulture and Landscaping), THH3EX **Green Industries, Grade 11, Workplace Preparation**

This course enables students to develop knowledge and skills related to agriculture, floristry, forestry, horticulture, and landscaping. Students will learn to identify a broad range of plant and animal species; examine factors that affect the growth of plants and animals and the quality of products derived from them; and develop process, design, and maintenance skills required in the green industries. Students will also learn about safe and healthy working practices, develop an awareness of environmental and societal issues related to green industry activities, and learn about apprenticeships and other postsecondary education and training opportunities, as well as employment opportunities that may be pursued directly after graduation.

| Code | Title | Additional Information |
|--------|------------------|--|
| THJ3EI | Green Industries | Recommended to be taken before or concurrently with emphasis courses |
| THH3EX | Green Industries | Landscaping Construction |

TXJ3EI, TXH3EX **Hairstyling and Aesthetics, Grade 11, Workplace Preparation**

This course enables students to develop knowledge and skills in cosmetology and offers a variety of applications that will equip students to provide services for a diverse clientele. Students identify trends in the hairstyling and aesthetics industry, learn about related health and safety laws, and expand their communication and interpersonal skills through interactions with peers and clients. Students consider environmental and societal issues related to the industry and acquire a more detailed knowledge of apprenticeships and direct entry work positions.

| Code | Title | Additional Information |
|--------|----------------------------|--|
| TXJ3EI | Hairstyling and Aesthetics | Recommended to be taken before or concurrently with emphasis courses |
| TXH3EX | Hairstyling and Aesthetics | Hairstyling |

TPJ3CI**Health Care, Grade 11, College Preparation**

This course focuses on the development of knowledge and skills that will benefit students planning a career in the health care field. Students will learn about human anatomy and physiology, homeostasis, vital signs, disease prevention and treatment, how lifestyle choices affect health and well-being, and conventional and complementary methods of disease prevention and treatment. Students will develop an awareness of health and safety issues, environmental and societal issues related to health care, and career opportunities in the field.

TPJ3MI**Health Care, Grade 11, University/College Preparation**

This course focuses on the development of knowledge and skills that will benefit students planning a career in the health care field. Students will learn about human anatomy and physiology, homeostasis, vital signs, disease prevention and treatment, how lifestyle choices affect health and well-being, and conventional and complementary methods of disease prevention and treatment. Students will develop an awareness of workers' health and safety issues, environmental and societal issues related to health care, and career opportunities in the field.

TFJ3EI, TFC3EX**Hospitality and Tourism, Grade 11, Workplace Preparation**

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

| Code | Title | Additional Information |
|--------|-------------------------|--|
| TFJ3EI | Hospitality and Tourism | Recommended to be taken before or concurrently with emphasis courses |
| TFC3EX | Hospitality and Tourism | Cooking |

TFJ3CI, TFR3CX**Hospitality and Tourism, Grade 11, College Preparation**

This course enables students to develop or expand knowledge and skills related to hospitality and tourism, as reflected in the various sectors of the tourism industry. Students will learn about preparing and presenting food, evaluating facilities, controlling inventory, and marketing and managing events and activities, and will investigate customer service principles and the cultural and economic forces that drive tourism trends. Students will develop an awareness of health and safety standards, environmental and societal issues, and career opportunities in the tourism industry.

| Code | Title | Additional Information |
|--------|----------------------------------|--|
| TFJ3CI | Hospitality and Tourism | Recommended to be taken before or concurrently with emphasis courses |
| TFR3CX | Hospitality and Tourism Emphasis | Culinary Arts and Management |

Technological Education

TMJ3CI, TMP3CX

Manufacturing Technology, Grade 11, College Preparation

This course enables students to develop knowledge and skills through hands-on, project based learning. Students will acquire design, fabrication, and problem-solving skills while using tools and equipment such as lathes, mills, welders, computer-aided machines, robots, and control systems. Students may have opportunities to obtain industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.

| Code | Title | Additional Information |
|--------|---|--|
| TMJ3CI | Manufacturing Engineering Technology | Recommended to be taken before or concurrently with emphasis courses |
| TMP3CX | Manufacturing Engineering Technology Emphasis | Precision Machining |

TMJ3EI, TMW3EX, TMO3EX

Manufacturing Technology, Grade 11, Workplace Preparation

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

| Code | Title | Additional Information |
|--------|-----------------------------------|--|
| TMJ3EI | Manufacturing Technology | Recommended to be taken before or concurrently with emphasis courses |
| TMW3EX | Manufacturing Technology Emphasis | Welding |
| TMO3EX | Manufacturing Technology Emphasis | Machine Operator |

TMJ3MI, TMR3MX

Manufacturing Engineering Technology, Grade 11, University/College Preparation

This course enables students to develop knowledge and skills related to design, process planning, control systems, and quality assurance. Students will use a broad range of tools and equipment and will combine modern manufacturing techniques and processes with computer-aided manufacturing as they develop critical decision-making, problem-solving, and project-management skills. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.

| Code | Title | Additional Information |
|--------|--------------------------------------|--|
| TMJ3MI | Manufacturing Engineering Technology | Recommended to be taken before or concurrently with emphasis courses |
| TMR3MX | Manufacturing Engineering Technology | Robotics and Control Systems |

TDJ3MI, TDA3MX, TDV 3MX**Technological Design, Grade 11, University/College**

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

| Code | Title | Additional Information |
|--------|-------------------------------|--|
| TDJ3MI | Technological Design | Recommended to be taken before or concurrently with emphasis courses |
| TDA3MX | Technological Design Emphasis | Architectural |
| TDV3MX | Technological Design Emphasis | Interior Design |

TDJ 3OI**Technological Design, Grade 11, Open**

This course enables students to apply a systematic process for researching, designing, building, and assessing solutions to address specific human and environmental challenges. Through their work on various projects, students will explore broad themes that may include aspects of industrial design, mechanical design, architectural design, control system design, and/or apparel design. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and postsecondary pathways leading to careers in the field.

Prerequisite: None

TTJ3CI, TTA3CX, TTS3CX, TTB3CX**Transportation Technology, Grade 11, College Preparation**

This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, brake, and steering systems on vehicles, aircraft, and/or watercraft. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry.

| Code | Title | Additional Information |
|--------|------------------------------------|--|
| TTJ3CI | Transportation Technology | Recommended to be taken before or concurrently with emphasis courses |
| TTA3CX | Transportation Technology Emphasis | Vehicle Service |
| TTS3CX | Transportation Technology | Small Engines |
| TTB3CX | Transportation Technology Emphasis | Auto Body |

TTJ3OI**Transportation Technology: Vehicle Ownership, Grade 11, Open**

This general interest course enables students to become familiar with the options and features of various vehicles, issues of registration, and the legal requirements affecting vehicle owners. Students will also learn about vehicle financing and insurance, vehicle maintenance, emergency procedures, and the responsibilities of being a vehicle owner. Students will develop an awareness of environmental and societal issues related to vehicle ownership and use, and will explore career opportunities in the transportation industry.

Technological Education

Grade 12

TEJ4MI, TEL4MX

Computer Engineering Technology, Grade 12, University/College Preparation

This course extends students' understanding of computer systems and computer interfacing with external devices. Students will assemble computer systems by installing and configuring appropriate hardware and software, and will learn more about fundamental concepts of electronics, robotics, programming, and networks. Students will examine environmental and societal issues related to the use of computers, and explore postsecondary pathways leading to careers in computer engineering and related fields.

Prerequisite: *Computer Engineering Technology, Grade 11, University/College Preparation*

| Code | Title | Additional Information |
|--------|---------------------------------|--|
| TEJ4MI | Computer Engineering Technology | Recommended to be taken before or concurrently with emphasis courses |
| TEL4MX | Computer Engineering Technology | Electronics |

TEJ4EI

Computer Technology, Grade 12, Workplace Preparation

This course enables students to further develop their practical understanding of computer hardware, software, networks, and operating systems. Students will use utility and application software, and will follow proper procedures for installing, maintaining, and troubleshooting computer systems and networks. In addition to demonstrating an understanding of the ethical use and environmental effects of computers, students will develop marketable skills and assess career opportunities in the field. **Prerequisite:** *Computer Technology, Grade 11, Workplace Preparation*

TGJ4MI, TGV4MX

Communications Technology, Grade 12, University/College Preparation

This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. Students may work in the areas of TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology and will investigate career opportunities and challenges in a rapidly changing technological environment. **Prerequisite:** *Grade 11 Communications Technology, University/College Preparation*

Prerequisite: *Grade 11 Communications Technology, University/College Preparation*

| Code | Title | Additional Information |
|--------|------------------------------------|--|
| TGJ4MI | Communications Technology | Recommended to be taken before or concurrently with emphasis courses |
| TGV4MX | Communications Technology Emphasis | TV, Video and Movie Production |
| | | |

TGJ4OI

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

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

TCJ4CI

Construction Engineering Technology, Grade 12, College Preparation

This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. Students will also focus on environmental and societal issues related to construction engineering technology, and explore career opportunities in the field. *Prerequisite: Grade 11 Construction Engineering Technology, College Preparation*

TCJ4EI, TCE4EX, TCH4EX, TCC4EX

Construction Technology, Grade 12, Workplace Preparation

This course enables students to further develop technical knowledge and skills related to residential construction and to explore light commercial construction. Students will continue to gain hands on experience using a variety of materials, processes, tools, and equipment; create and interpret construction drawings; and learn more about building design and project planning. They will expand their knowledge of terminology, codes and regulations, and health and safety standards related to residential and light commercial construction. Students will also expand their awareness of environmental and societal issues related to construction technology and explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation. *Prerequisite: Grade 11 Construction Technology, Grade 11, Workplace Preparation*

| Code | Title | Additional Information |
|--------|----------------------------------|--|
| TCJ4EI | Construction Technology | Recommended to be taken before or concurrently with emphasis courses |
| TCE4EX | Construction Technology Emphasis | Electrical/Network Cabling |
| TCH4EX | Construction Technology Emphasis | Heating and Cooling |
| TCC4EX | Construction Technology Emphasis | Carpentry |

TWJ4EI

Custom Woodworking, Grade 12, Workplace Preparation

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

Prerequisite: Grade 11 Custom Woodworking, Workplace Preparation

THJ4EI (Horticulture and Landscape), THH3EX Green Industries, Grade 12, Workplace Preparation

This course enables students to gain further experience with a variety of industry procedures and operations and to acquire additional industry-specific skills. Students will study more complex processes, develop more advanced design and maintenance skills, and explore ways of enhancing environmental sustainability. They will also examine social and economic issues related to the green industries, learn about safe and healthy working practices, study industry standards and codes, and explore career opportunities in the various industries. The knowledge and skills acquired in this course will prepare students for the workplace and apprenticeship training. *Prerequisite: Grade 11 Green Industries, Workplace Preparation*

| Code | Title | Additional Information |
|--------|------------------|--|
| THJ4EI | Green Industries | Recommended to be taken before or concurrently with emphasis courses |
| THH3EX | Green Industries | Landscaping Construction |

Technological Education

TXJ4EI, TXH4EX

Hairstyling and Aesthetics, Grade 12, Workplace Preparation

This course enables students to develop increased proficiency in a wide range of hairstyling and aesthetics services. Working in a salon/spa team environment, students strengthen their fundamental cosmetology skills and develop an understanding of common business practices and strategies in the salon/spa industry. Students expand their understanding of environmental and societal issues and their knowledge of postsecondary destinations in the hairstyling and aesthetics industry. *Prerequisite: Grade 11 Hairstyling and Aesthetics, Workplace Preparation*

| Code | Title | Additional Information |
|-------------|----------------------------|--|
| TXJ4EI | Hairstyling and Aesthetics | Recommended to be taken before or concurrently with emphasis courses |
| TXH4EX | Hairstyling and Aesthetics | Hairstyling |

TPJ4CI

Health Care, Grade 12, College Preparation

This course focuses on the development of clinical skills needed to assess general health status. Students will learn about accepted health care practices and about how to perform various basic procedures, using appropriate instruments and equipment. They will learn about the human immune system, pathology, and disease prevention and treatment. Students will also expand their awareness of workers' health and safety issues, environmental and societal issues related to health care, and postsecondary destinations in the field. *Prerequisite: Grade 11 Health Care, College Preparation*

TPJ4MI

Health Care, Grade 12, University/College Preparation

This course focuses on the development of clinical skills needed to assess general health status. Students will learn about accepted health care practices and about how to perform various procedures, using appropriate instruments and equipment. They will learn about the human immune system, pathology, and disease prevention and treatment. Students will also expand their awareness of workers' health and safety issues, environmental and societal issues related to health care, and postsecondary destinations in the field. *Prerequisite: Grade 11 Health Care, University/College Preparation*

TOJ4CI

Child Development and Gerontology, Grade 12, College Preparation

This course enables students to examine the stages of child development and the aging process. Students will study the processes of disease and factors contributing to health and well-being in early and later life, and will develop skills required to meet the needs of children and older adults (care skills). Students will also learn about legislation governing the care of children and older adults; evaluate social and recreational activities, programs, and services for improving quality of life; and develop an awareness of health and safety issues, environmental and social issues, and career opportunities related to child care and gerontology.

TPJ4EI

Health Care: Support Services, Grade 12, Workplace Preparation

This course enables students to develop the basic skills needed for careers in a range of health care support services. Students will practice and apply a variety of clinical procedures and infection control skills as they learn about principles of infection control, service excellence, and the nature of the health care industry. Students will also investigate workers' health and safety issues, environmental and societal issues related to health care, and career opportunities in the field.

TFJ4EI, TFC4EX**Hospitality and Tourism, Grade 12, Workplace Preparation**

This course enables students to further develop knowledge and skills related to the food and beverage services sector of the tourism industry. Students will demonstrate proficiency in using food preparation and presentation tools and equipment; plan nutritious menus, create recipes, and prepare and present finished food products; develop customer service skills; and explore event and activity planning. Students will expand their awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector. *Prerequisite: Grade 11 Hospitality and Tourism, Workplace Preparation*

| Code | Title | Additional Information |
|--------|-------------------------|--|
| TFJ4EI | Hospitality and Tourism | Recommended to be taken before or concurrently with emphasis courses |
| TFC4EX | Hospitality and Tourism | Cooking |

TFJ4CI, TFR4CX**Hospitality and Tourism, Grade 12, College Preparation**

This course enables students to further develop knowledge and skills related to the various sectors of the tourism industry. Students will demonstrate advanced food preparation and presentation skills; increase health and wellness knowledge; develop tourism administration and management skills; design and implement a variety of events or activities; and investigate principles and procedures that contribute to high-quality customer service. Students will expand their awareness of health and safety issues, environmental and societal issues, and career opportunities in the tourism industry. *Prerequisite: Grade 11 Hospitality and Tourism, College Preparation*

| Code | Title | Additional Information |
|--------|----------------------------------|--|
| TFJ4CI | Hospitality and Tourism | Recommended to be taken before or concurrently with emphasis courses |
| TFR4CX | Hospitality and Tourism Emphasis | Culinary Arts and Management |

TMJ4CI, TMP4CX**Manufacturing Technology, Grade 12, College Preparation**

This course enables students to further develop knowledge and skills related to machining, welding, print reading, computer numerical control (CNC), robotics, and design. Students will develop proficiency in using mechanical, pneumatic, electronic, and computer control systems in a project-based learning environment and may have opportunities to obtain industry-standard training and certification. Students will expand their awareness of environmental and societal issues and career opportunities in the manufacturing industry. *Prerequisite: Grade 11 Manufacturing Technology, College Preparation*

| Code | Title | Additional Information |
|--------|---|--|
| TMJ4CI | Manufacturing Engineering Technology | Recommended to be taken before or concurrently with emphasis courses |
| TMP4CX | Manufacturing Engineering Technology Emphasis | Precision Machining |

Technological Education

TMJ4EI, TMW4EX, TMOEX

Manufacturing Technology, Grade 12, Workplace Preparation

This project-driven, hands-on course builds on students' experiences in manufacturing technology. Students will further develop knowledge and skills related to the use of engine lathes, milling machines, welding machines, and other related tools and equipment as they design and fabricate solutions to a variety of technological challenges in manufacturing. Students may have opportunities to acquire industry-standard training and certification. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry. *Prerequisite: Grade 11 Manufacturing Technology, Workplace Preparation*

| Code | Title | Additional Information |
|--------|-----------------------------------|--|
| TMJ4EI | Manufacturing Technology | Recommended to be taken before or concurrently with emphasis courses |
| TMW4EX | Manufacturing Technology Emphasis | Welding |
| TMO4EX | Manufacturing Technology Emphasis | Machine Operator |

TMJ4MI, TMR4MX

Manufacturing Engineering Technology, Grade 12, University/College Preparation

This course enables students to further develop knowledge and skills related to design, process planning, control systems, project management, quality assurance, and business operations. Students will use a broad range of tools and equipment, enhance their skills in computer-aided design, and collaborate in managing a project. Students will critically analyse and solve complex problems involved in manufacturing products. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry. *Prerequisite: Grade 11 Manufacturing Engineering Technology, University/College Preparation*

| Code | Title | Additional Information |
|--------|------------------------------------|--|
| TMJ4MI | Manufacturing Engineering | Recommended to be taken before or concurrently with emphasis courses |
| TMR4MX | Manufacturing Engineering Emphasis | Robotics and Control Systems |

TDJ4MI, TDA4MX, TDV4MX

Technological Design, Grade 12, University/College

This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem solving and communication skills, and explore career opportunities and the postsecondary education and training requirements for them. *Prerequisite: Grade 11 Technological Design, University/College Preparation*

| Code | Title | Additional Information |
|--------|-------------------------------|--|
| TDJ4MI | Technological Design | Recommended to be taken before or concurrently with emphasis courses |
| TDA4MX | Technological Design Emphasis | Architectural |
| TDV4MX | Technological Design Emphasis | Interior Design |

TDJ4OI

Technological Design, Grade 12, Open

This course focuses on the relationship between society and technological development. Students will use appropriate tools, techniques, and strategies to research, design, build, and assess prototypes for products and/or processes that respond to society's changing needs. Students will describe how social factors, including culture, media, politics, religion, and environmental concerns, influence technological design. Students will also learn about professional practices in the field, and will research postsecondary pathways leading to careers related to technological design.

Prerequisite: None

TTJ4CI, TTA4CX, TTB4CX, TTS 4CX
Transportation Technology, Grade 12, College Preparation

This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; power trains; steering/control, suspension, brake, and body systems on vehicles, aircraft, and/or watercraft; and/or small engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry. *Prerequisite: Grade 11 Transportation Technology, College Preparation*

| Code | Title | Additional Information |
|--------|------------------------------------|--|
| TTJ4CI | Transportation Technology | Recommended to be taken before or concurrently with emphasis courses |
| TTA4CX | Transportation Technology Emphasis | Vehicle Service |
| TTB4CX | Transportation Technology Emphasis | Auto Body |
| TTS4CX | Transportation Technology Emphasis | Small Engines |

TTJ4EI

Transportation Technology: Vehicle Maintenance, Grade 12, Workplace Preparation

This course introduces students to the servicing, repair, and maintenance of vehicles through practical applications. The course is appropriate for all students as a general interest course to prepare them for future vehicle operation, care, and maintenance or for entry into an apprenticeship in the motive power trades. Students will develop an awareness of environmental and societal issues related to transportation and will learn about careers in the transportation industry and the skills and training required for them.

Course Descriptions for Computer Studies

Grade 10

ICS2OI

Introduction to Computer Studies, Grade 10, Open

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

Grade 11

ICS3UI

Introduction to Computer Science, Grade 11, University Preparation

This course introduces students to computer science. Students will design software independently and as part of a team, using industry-standard programming tools and applying the software development life-cycle model. They will also write and use subprograms within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields.

ICS3CI

Introduction to Computer Programming, Grade 11, College Preparation

This course introduces students to computer programming concepts and practices. Students will write and test computer programs, using various problem-solving strategies. They will learn the fundamentals of program design and apply a software development life-cycle model to a software development project. Students will also learn about computer environments and systems, and explore environmental issues related to computers, safe computing practices, emerging technologies, and postsecondary opportunities in computer-related fields.

Grade 12

ICS4UI

Computer Science, Grade 12, University Preparation

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

ICS4CI

Computer Programming, Grade 12, College Preparation

This course further develops students' computer programming skills. Students will learn object-oriented programming concepts, create object-oriented software solutions, and design graphical user interfaces. Student teams will plan and carry out a software development project using industry-standard programming tools and proper project management techniques. Students will also investigate ethical issues in computing, and expand their understanding of environmental issues, emerging technologies, and computer-related careers. *Prerequisite: Grade 11 Introduction to Computer Programming, College Preparation*

Course Descriptions for Native Studies

NDA3MI

Current Aboriginal Issues in Canada, Grade 11, University/College Preparation

This course focuses on existing and emerging issues of importance to Aboriginal peoples in Canada. Students will investigate issues related to identity, relationships among Aboriginal peoples and between Aboriginal peoples and other Canadians, sovereignty principles as presented by Aboriginal peoples, and the contemporary challenges posed by these issues. Students will also examine such topics as language preservation, the responsibilities of Aboriginal women and men, and the need for dialogue between Aboriginal and non-Aboriginal peoples. *Prerequisite: Aboriginal Peoples in Canada, Grade 10, Open or Canadian History in the Twentieth Century, Grade 10, Academic or Applied*

NDW4MI

Issues of Indigenous Peoples in a Global Context, Grade 12, University/College Preparation

This course provides students with an overview of the issues and challenges that confront indigenous peoples worldwide. Students will develop an understanding of the concerns and aspirations of the world's indigenous population, plan and conduct research on global issues that have an impact on indigenous peoples, and use information technology to consult materials related to the views of indigenous peoples throughout the world. *Prerequisite: Any Grade 11 university, university/college, or college preparation course in Native studies*