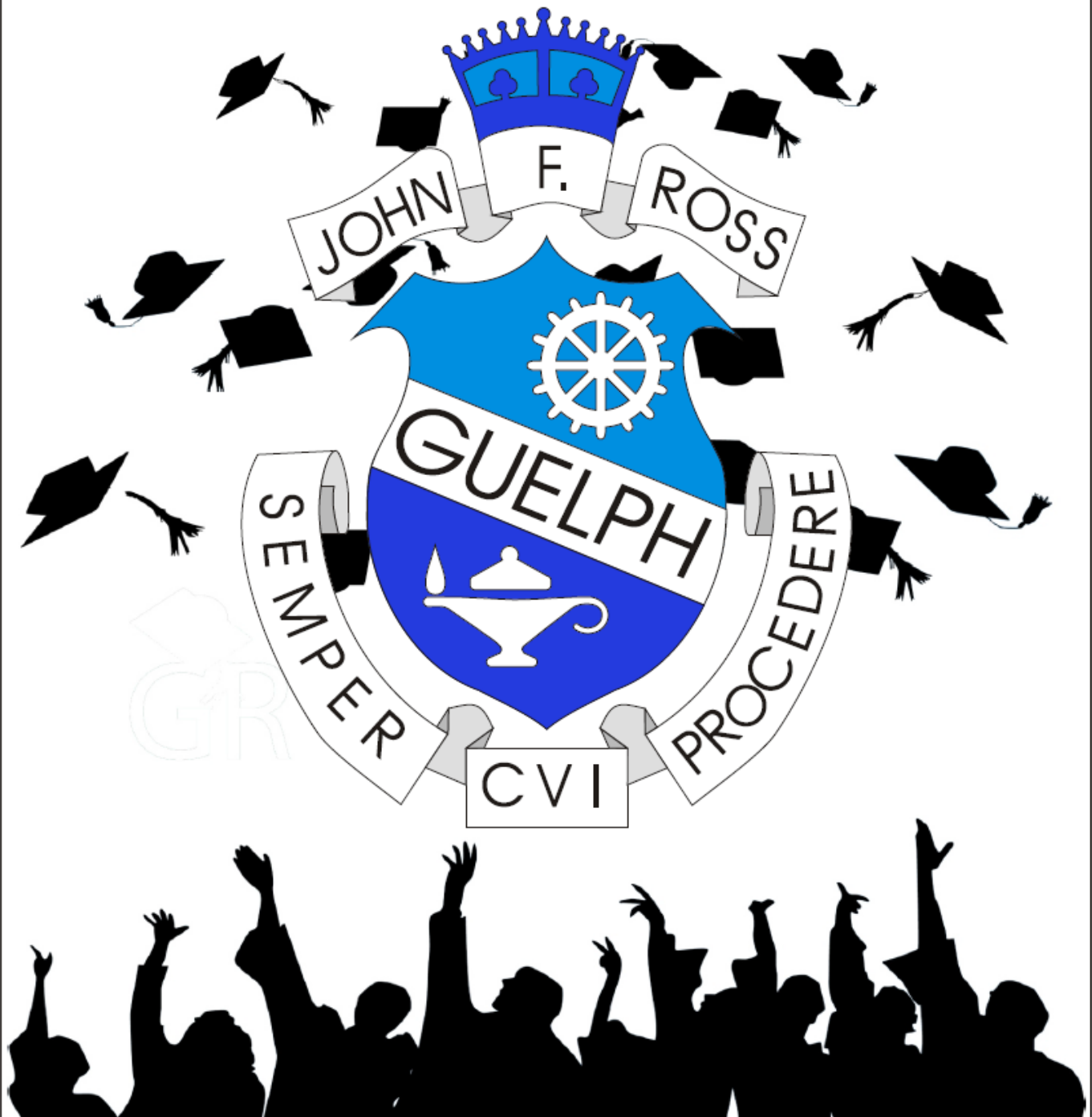


JOHN F. ROSS C.V.I.

Course Calendar

2015 - 2016



THE JOHN F. ROSS MISSION STATEMENT

In a safe, respectful, and socially conscious environment, John F. Ross C.V.I. will inspire students to be engaged learners who understand other people and perspectives within a changing local and global community.

Students are challenged to become creative and analytical thinkers, effective communicators, and healthy individuals who achieve excellence within and beyond the classroom.

OUR AIMS:

We challenge and support each student to be the best that she/he can be.

We kindle a foundation for lifelong learning.

We will provide a challenging curriculum, and an extensive and varied co-curricular program, designed to contribute significantly to the fulfillment of the intellectual, emotional, moral, physical and social needs of each student.

We encourage our students to develop their leadership abilities by taking advantage of the many opportunities at Ross, including involvement in advisory groups and in teaching-tutoring.

We work in partnership with parents to support our expectations of students to have consistent attendance, a willing attitude, and socially acceptable behaviour.



**J.F. Ross Motto:
Semper Procedere! Always Progressing!**

WELCOME TO JOHN F. ROSS C.V.I.

Over the next few years there will be many changes in your life. As you grow, you will make new friends, find new interests, try new things, learn about yourself, experience happiness, sadness, challenges and opportunities. We hope to be able to help you along the way, and then celebrate with you and your friends and family upon your success at graduation.

John F. Ross is a school that offers a great diversity of programs for a very wide variety of students with a staff who also care very much for each individual student. We foster a supportive environment, where students help to look out for the welfare of each other. This comes from our belief in mutual respect – a philosophy of which we are proud.

Whether upon graduation you plan to enter the work force, apprentice in a skilled trade, attend a community college or go to university, John F. Ross will provide you with the opportunity to reach your goals. Careful reading of this program booklet is the first start. We wish you the very best for a successful high school career and we will endeavour to help you along the way.

Your future deserves your best effort.

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GENERAL INFORMATION

PARENTS AND STUDENTS

It is time again to make decisions about course selection for next year. Parents play an important role in this significant process. Included in this section is information about diploma requirements and school services. In the following section, you will find course descriptions.

As you select courses, please give careful consideration to your future. Every subject offers opportunities for each of you. While this calendar will help in your decision-making, please contact our Guidance Services Department should you have questions.

DAILY PROGRAM

At John F. Ross we run a semester schedule: 75 minute classes in 4 subjects, September through January; and 4 more, February through June. The Student Planner, distributed in September during the first week of school, outlines specific procedures and helpful strategies. Students are strongly encouraged to use planners daily as an organizational tool.

ATTENDANCE

Regular class attendance increases the opportunity for student success in a course. If a student misses 15 classes the student may be withdrawn from that course. There is an automated phone system which calls home reporting on classes missed. Letters are sent home after 8 and 15 classes missed even if these absences have already been communicated to the school. Further information concerning absences and lateness is available in the Student Planner.

STUDENT RIGHTS & RESPONSIBILITIES AND CODE OF CONDUCT

John F. Ross students are expected to show respect for themselves, for others and for property. Further information on the Code of Conduct and student responsibility is available in the Student Planner.

GRADUATION REQUIREMENTS

1. ONTARIO SECONDARY SCHOOL DIPLOMA (O.S.S.D)

Students must complete the following in order to obtain the OSSD:

18 Compulsory credits which must include:

- 4 credits in English*
- 3 credits in mathematics
- 2 credits in science
- 1 credit in Canadian history
- 1 credit in Canadian geography
- 1 credit in the arts
- 1 credit in health and physical education
- 1 credit in French as a second language
- ½ credit civics and ½ credit career studies
- Group 1: 1 additional credit in English, or French as a second language, (FSL) ** 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: 1 additional credit in health and physical education, or the arts, or business studies, or FSL,** or cooperative education***
- Group 3: 1 additional credit in science (Grade 11 or 12), or technological education, or French as a second language,**or computer studies, or cooperative education***

12 optional credits selected from available courses†

Note: For specific requirements indicated by the symbols above, please consult with a guidance counselor.

Ontario Secondary School Literacy Test

All students must successfully complete the provincial Secondary School Literacy Test in order to earn a secondary school diploma. The test will be based on the Ontario curriculum expectations for language and communication - particularly reading and writing - up to and including Grade 9. The test will serve both to determine whether students have acquired the reading and writing skills considered essential for literacy, and to provide confirmation that those students who have completed the test successfully have attained the provincial expectations for literacy. The successful completion of the test will be recorded on the Ontario Student Transcript. Students who do not successfully complete the test will have opportunities to rewrite it. Students who still require the literacy component in order to graduate will be enrolled in the Ontario Secondary School Literacy Course. Upon successful completion of the course students will have fulfilled their literacy requirement.

The Education Quality and Accountability Office (EQAO) and the Ministry of Education through Policy and Program Memorandum 127 have indicated the acceptable accommodations, deferrals and exemptions for students with an Individual Education Plan (IEP). In each case, the accommodation used must be specified in the student's IEP. A request for a deferral or exemption may be made by a parent or guardian. A principal may also initiate consideration of a deferral or exemption with a parent or guardian.

40 hours of community involvement activities

As part of the diploma requirements, students must complete a minimum of 40 hours of community involvement activities at any time during their years in the secondary school program. Students must keep a record of this involvement and have it validated by the school Principal. Community involvement activities may take place in a variety of settings, including businesses, not-for-profit organizations, public sector institutions (including hospitals), and informal settings. Students may not fulfill the requirement through activities that are counted towards a credit (cooperative education and work experience, for example), through paid work, or by assuming duties normally performed by a paid employee. The requirement is to be completed outside students' normal instructional hours - during designated lunch hours, after school, on weekends, or during school holidays.

A copy of the Upper Grand District School Board Community Involvement Information Manual is available in the Guidance Office or online at the John F. Ross website. It provides students with lists of eligible and ineligible activities. It must be used to record hours for planned and completed Community Involvement Activities. A student may count activities beginning in the summer before entry to Grade 9. It is the responsibility of parents and students to maintain the Community Involvement Form and keep it up to date. **Hours are to be submitted to the guidance office for approval by June in order to be included in the fall commencement ceremony.**

2. ONTARIO SECONDARY SCHOOL CERTIFICATE

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

i. 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

ii. Optional Credits (total of 7):

Student selects from available courses.

3. THE CERTIFICATE OF ACCOMPLISHMENT

Students who leave school before fulfilling the requirements for the OSSD or the Ontario Secondary School Certificate may be granted a Certificate of Accomplishment. This may be a useful means of recognizing achievement for students who plan to take certain vocational programs or other kinds of further training, or who plan to find employment after leaving school. The Certificate of Accomplishment will be accompanied by the student's Ontario Student Transcript. Students who return to school to complete additional credit and non-credit courses will have their transcripts updated accordingly, but will not be issued a new Certificate of Accomplishment. They may work towards an Ontario Secondary School Certificate or the Ontario Secondary School Diploma.

AWARDS, PRIZES, SCHOLARSHIPS, HONOUR ROLL

Student awards are given at our annual Commencement in the fall and at our Awards Assemblies.

HONOUR ROLL will include those students with 80% or better who fulfill the following:

- in a full program for grades 9 and 10
- in any 7 subjects for grade 11
- in any 6 subjects for grade 12
- all new credit courses taken during day school, night school and summer school from September 1 to August 30th will be used to calculate Honour roll status
- exchange students can qualify with 6 subjects
- students in senior leadership roles can qualify with 6 subjects and staff advisor support

ONTARIO SCHOLAR is defined as a graduating student with 80% or better in six grade 12 courses.

GOLD AND SILVER PINS

- A Silver Pin will be awarded to students who have been on the Honour Roll for any 6 consecutive semesters.
- An additional Silver Pin will be awarded to those who qualify in their fourth year.
- A Gold Pin will be awarded to graduates who have achieved Ontario Scholar status.
- New students to J .F .Ross who were on the Honour Roll at their last school will qualify for the Ross Honour Roll, Silver & Gold Pins, providing that all the requirements are met.
- Silver Pins are donated W .C. Woods Company and Gold Pins are donated by Barbara and John Wood

STUDENT EVALUATION AND REPORTING

John F. Ross has a strong tradition of high academic standards. The teachers and administrators at Ross expect each student to work toward achieving well above minimum requirements. Under the credit system, students are evaluated and promoted on an individual course basis. Credits are granted by the principal as per Ministry of Education guidelines. In all courses, students are evaluated in accordance with *Growing Success: Assessment, Evaluation and Reporting in Ontario* (2010)

Student achievement must be communicated formally to students and parents by means of the Provincial Report Card, Grades 9-12. The report card focuses on following two distinct but related aspects of student achievement:

i. The Achievement of Curriculum Expectations

A student's achievement of the curriculum expectations in every course is given at particular points in the semester in the form of a percentage grade. The percentage grade represents the quality of the student's overall achievement of the expectations for the course, reflecting the corresponding level of achievement as described in the achievement chart for the discipline. A final grade is recorded for every course completed. Credit is granted and recorded for every course in which the student's grade is 50% or higher. An "I" under "percentage mark" means the teacher did not have enough information to assign a grade.

The final grade for each course in Grades 9-12 will be determined as follows:

- a. 70% of the grade will be based on assessment conducted throughout the course. This portion of the grade should reflect the student's most consistent level of achievement throughout the course, although special consideration should be given to more recent evidence of achievement.
- b. 30% of the grade will be based on a final evaluation in the form of an examination, performance, essay, and/or other method of evaluation suitable to the course content, and administered towards the end of the course.

In all of their courses, students must be provided with numerous and varied opportunities to demonstrate the full extent of their achievement of the curriculum expectations across all four categories of knowledge: understanding/knowledge, thinking/inquiry, communication, and application.

ii. The Development of Learning Skills and Habits

These are reported in the form of notation: **"E"- excellent, "G" - good, "S"- satisfactory or "N" - needs improvement.** The learning skills which are evaluated include: **Responsibility, Organization, Independent Work, Collaboration, Initiative and Self-regulation.**

The Provincial Report Card also includes teachers' comments on the student's strengths, areas in which improvement is needed, and ways in which improvement might be achieved. Separate sections are provided for recording attendance and lateness in each course. Further information concerning evaluation is available in the Student Planner given to each student in September.

STUDENT SERVICES

SUPPORTING STUDENT SUCCESS

The John F. Ross staff believes that all students can succeed. Along with support from the Upper Grand District School Board, our goal is to ensure that students graduate from high school so that they may move on to the pathway destination of their choice. In order to reach every student, secondary schools have several student services available to support students along the way. Guidance counsellors assist students with appropriate course selections, provide career counselling, and advise students on post-secondary options. They also collaborate with Social Workers and Youth Workers to co-ordinate social and emotional support. Students with exceptionalities are supported by Special Education Resource Teachers. Student Success is a team approach that involves all members of the educational community: the student, the parents/guardians, the classroom teachers, administrators as well as those within student services. Together we can help students experience success. The following briefly outlines the services available to students at John F. Ross.

THE J.F.R. LEARNING COMMONS

JFR Learning Commons, welcomes all students to our space. Please drop by to browse our online catalogue, engage in study and research, and join in our love of the written word. We also offer printing services at a nominal charge, and sell some supplies like Bristol board and locks. For more information, click on the Information Centre Library on our school's website <http://website.ugdsb.on.ca/jfr> or swing by for a visit!

GUIDANCE COUNSELLORS

At J.F. Ross, Guidance Counsellors work to support students in many facets of their lives. Following the guidance and career education program, Counsellors work to foster three areas of student knowledge and skills: **individual development**, **interpersonal development**, and **career development**. The goals as they relate to student success are to:

- **understand** the concepts related to lifelong learning, interpersonal relationships (including responsible citizenship), and career planning
- **develop** learning skills, social skills, a sense of social responsibility, and the ability to formulate and pursue educational and career goals
- **apply** this learning to their lives and work in the school and the community

In order to achieve these goals, the John F. Ross guidance and career education program strives to offer students:

- a range of experiential learning and career exploration activities in the community and beyond
- opportunity to complete the compulsory grade 10 Career Studies course in a meaningful manner
- individual assistance and short-term counselling
- support via the Teen Health Clinic and other community partners when required

Finally, Guidance Services works with students to help them plan for academic success and future careers beyond secondary school. In order to do this, students are supported in acquiring the skills and knowledge required to set goals, make decisions and plan future careers. Along with the daily activities and support provided by Guidance Services, the students also track the growth of their career development competencies and plan for their future in an **Individual Pathways Plan (IPP)**. Students, with support from Guidance Services, parents and teachers endeavour to review and revise their IPP at least twice annually.

STUDENT SUCCESS TEACHER

The Student Success Teacher (SST) works directly with students who have, or may experience, difficulties in their courses. The SST works closely with the other members of the Student Success Team including administration, guidance and special education in order to determine the best interventions to support students and help get them back on track. Some of the services that the Student Success Teacher may provide include mentoring students, monitoring their progress, supporting their teachers and co-ordinating Credit Recovery and Alternative Education Programs.

SPECIAL EDUCATION SERVICES

Special education teachers and support staff in the Special Education Department work to support students who have been identified as exceptional by the Upper Grand District School Board through an Identification, Placement and Review Committee (**IPRC**). Exceptional students will receive accommodations as defined by the Individual Education Plan (**IEP**), prepared by the Special Education staff and classroom teachers. An annual review of the student's designation and placement takes place in the spring. Parents of students with learning disabilities should take note of the Learning Strategies (**GLE**) course offered (refer to the Guidance section of the course calendar for the course description). The following describes and defines key elements of the special education services.

Accommodations and Modifications: The term *accommodations* refers to special teaching or assessment strategies, human supports and/or individualized equipment required for a student to learn or demonstrate learning in regular course expectations. *Modifications* are changes that differ in some way from the regular course expectations.

Alternative (Non-Credit) Courses: Non-credit courses are offered to students in the School Community Work Transitions program. These students are working toward a Certificate of Accomplishment. The alternative courses are individualized for the student and focus on preparing the student for daily living.

IPRC and IEP: The Identification, Placement and Review Committee (IPRC) is the committee that decides whether or not a student should be identified as exceptional, identifies the area of exceptionality as defined by the Ministry of Education, and decides on an appropriate placement for the student. Once a student is identified, an in school IPRC committee meets once a year to review the student's identification and placement. An Individual Education Plan (IEP) must be developed for exceptional students, in consultation with the parents. The IEP includes an outline of the special education program and services that will be received. For students 14 years and older, a plan for transition to appropriate post-secondary school activities such as work, further education, and community living is included.

SEAC: The Upper Grand District School Board has established a Special Education Advisory Committee (SEAC). Their role is to: make recommendations for Special Education programs and services; participate in the review of the Board's Special Education Plan; participate in the budget process as related to Special Education; provide information to parents; and to support the Special Olympics. SEAC is made up of local parent representatives of Provincial Associations, two school trustees, and interested local community representatives. Meetings are open to the public and held on the second Wednesday of each month throughout the school year. Meetings begin at 7 pm at the Upper Grand District School Board office in Guelph. For further information please call the Program Department at (519) 941-6191 ext. 254.

UGDSB Parent Guide and Policies and Procedures: The Board's Special Education Plan is available through the Board website <http://www.ugdsb.on.ca>. Copies of the Special Education Parent Guide are available at the school. Please contact the Special Education department to request a copy of the Parent Guide, or with any further questions.

SOCIAL WORKER AND YOUTH WORKER

The role of the Youth Counsellor and Social Worker is to provide support and counselling to those students who are experiencing emotional, social and behavioural issues. Students are seen individually and in small groups and, when necessary, students are referred to outside agencies. All discussions with the Youth Counsellor and Social Worker are confidential.

TEEN CLINIC

The clinic is located across from the Guidance Office. Along with the social worker and the child and youth counsellor, it is staffed with other professionals including a public health nurse and a physician. An alcohol and drug counsellor, mental health nurse, and police officer, are available at various times to provide a breadth of services to teens. The schedules are posted and students may request an appointment confidentially through the Guidance Office.

A WORD ABOUT GRADE 9...

The first year of high school is an exciting and energizing time for students. John F. Ross offers students a rich program of curricular and co-curricular activities. Studies indicate that student engagement is a key predictor of success in high school. We encourage all students to get involved, not only in their studies but in the many co-curricular activities available. For grade 9 students their successful graduation is dependent upon a successful start upon entering high school. Studies on high school drop-outs indicate that students who experience failure in their first years of school, and who become credit poor, have a higher chance of leaving school without graduating. For this reason, the program taken in grade 9 should be carefully selected to challenge students without a high risk of failure.

It is important that our grade 9 students feel comfortable and safe at John F. Ross. If this is not the case, please contact a vice-principal or the principal and we will do whatever possible to create comfort for your child. If your child is experiencing difficulty with their studies, please contact the subject teacher for assistance, or contact a member of the Student Services Team below if an intervention is required.

So, if you have questions about.....	Contact
* Changing courses or option selections * Social-emotional or wellness concerns * Careers, Apprenticeships, College, Universities	Guidance
* Academic assistance * Credit Recovery and support	Student Success Teacher
* Your student's Individualized Education Plan (IEP) * IPRC reviews * Changing courses or option sections for identified students	Special Education
* Social emotional or wellness concerns * Mental health issues	Social Worker or Youth Worker
* Police services * Pregnancy * Communicable disease * Drug and alcohol counseling	Teen Clinic
* Attendance * Behaviour	Vice Principal

SCHOOL COUNCILS

Students' Council

Students' Council is an elected body which represents all of the student activities and non-athletic organizations in the school. Representatives are elected from each grade and the executive from the entire student body. Membership in the Council provides an opportunity for students to demonstrate and develop their abilities as leaders and citizens. It is the aim of the Council to have meaningful and constructive co-curricular programs for students of varying talents and interests. All students on the council must go through an application process. All successful candidates will be enrolled in the Business Leadership: Management Fundamentals course (BOH4M).

Athletic Council

The Athletic Council is a voluntary organization which provides the students of the school with an intramural sports program and which assists with the extracurricular sports activities. The aim of the Council is to involve as many students as possible in a wide variety of intramural sports and social activities. Anyone who is interested in athletics is welcome to join this very important council. An application process is required and all successful candidates are enrolled in PLF4C – Fitness Leadership – for the opportunity to earn credit.

Arts Council

The Arts Council is a group of students responsible for arts related activities at John F. Ross. They represent the literary, musical, dramatic and visual arts. All students are welcome at general meetings.

SPECIALIZED PROGRAMMING

e-LEARNING in the UGDSB

1. e-Courses: Upper Grand District School Board and John F. Ross CVI are able to offer selected students the opportunity to take online courses (e-learning). Through the Ontario e-Learning Consortium, the UGDSB and 20 other school boards work together to optimize e-Learning programs and enhance student learning through emerging technologies and innovative practices. Through this partnership students in the UGDSB have access to a broader range of courses taught by Ontario certified teachers. Students who are unable to take a course through our daytime program may have the opportunity to gain that credit through e-learning. In addition, students with specific needs as outlined in the protocol (below) may also enrol in e-learning courses. **These courses meet Ministry standards, and are taught by Ontario teachers, and count as credits towards the Ontario Secondary School Diploma.**

Requirements

Approval: In order to register for an e-learning course **you must see a guidance counsellor.** In guidance, you will receive information about course availability and online learning requirements. **All decisions are based on the principal's discretion.** Criteria to be considered for acceptance include:

- Home-schooled students
- Availability of courses in the home school
- Health issues that prevent full-time attendance
- Special education needs (such as giftedness)
- Students who fit the profile of a successful online learner as described below

Profile of a Successful E-Learner:

- | | |
|--|--|
| • A problem-solver and critical thinker | • Computer literate |
| • Organized | • Self-motivated |
| • Self-directed | • Responsible |
| • Able to manage his/her time | • Honest |
| • Able to multitask | • An effective communicator |
| • Flexible – with a willingness to learn | • Willing & able to provide a working computer |

Rights & Responsibilities

An e-learning student is responsible for:

- Obtaining approval for an e-learning course registration through the guidance department
- Participating in an e-learning orientation
- Following the policies outlined in the course syllabus with respect to acceptable use and student conduct
- Meeting participation requirements as outlined in the course syllabus
- Spending at least as much time with your online course as you would expect to spend on a regular class.

Other Information

1. A student may only enroll in a maximum of 4 courses per semester as this constitutes a full-time course load. This total of 4 includes all classes in the home school as well as online.
2. Any decisions with respect to e-learning enrollment are made by the student and his/her parent in consultation with the guidance department and the school principal. Notwithstanding, a principal may deny a student the opportunity to take an e-learning course when the principal feels that the student will not be successful.
3. Students cannot opt out of a course currently offered at the home school to take the same course online.
4. Any courses at UGDSB Secondary Schools that are cancelled due to low enrollment in a given location may be available online. Students with these choices will be contacted about availability of courses online by the home school's guidance department.

2. e-Resources: These educational resources are posted by the Ontario Ministry of Education through the OERB (Ontario Educational Resource Bank) and by sources through the World Wide Web. The OERB is available to residents of Ontario who are parents, students or teachers.

SPECIALIST HIGH SKILLS MAJOR

What is it?

The SHSM is a Ministry-approved Specialized Program that consists of a defined combination of courses and experiences that relate to a specific economic sector. The SHSM enables students to gain the sector-identified preparatory credits, skills and knowledge, and make informed career decisions. This makes the learning environment more engaging for students, focuses them on graduation and prepares them to pursue their career goals.

What SHSM programs are available?

At John F. Ross, students can pursue a SHSM in one of these areas:

- **Agriculture**
- **Arts and Culture**
- **Construction**
- **Environment**
- **Health and Wellness: i. Health ii. Cosmetology**
- **Manufacturing**
- **Transportation**

Why pursue a SHSM?

The SHSM allows students to customize their high school experience to suit their interests and talents, and prepare for a successful post secondary transition to apprenticeship training, college, university, or employment, while meeting the requirements of the Ontario Secondary School Diploma (OSSD).

Components for the SHSM

In order to receive recognition for completing a SHSM as part of an Ontario Secondary School Diploma, a student must complete the following requirements:

- i. A bundle of Grade 11 and Grade 12 credits that include:
 - 4 major credits that provide sector-specific knowledge and skills;
 - 3 or 4 other required credits from the Ontario curriculum, in English and Mathematics, in which some expectations are met through learning activities contextualized to the sector;
 - 2 co-operative education credits that provide authentic learning experiences in a workplace setting, enabling students to refine, extend, apply, and practice sector-specific knowledge and skills.
- ii. Sector-recognized certifications and training courses (some are compulsory, and a choice of additional training from a list of Ministry approved certifications and training courses (the requirement is different for each sector).
- iii. Experiential learning activities within the sector.
- iv. “Reach Ahead” experiences in the area of the student’s postsecondary destination of choice.
- v. Development of Essential Skills and work habits required in the sector, and use of the Ontario Skills Passport (OSP) for purposes of documentation.

DUAL CREDITS

The Dual Credit program provides a unique opportunity for senior students to take courses in selected career areas at the college level, while exposing students to the college setting, culture, and expectations. **Students receive credit at both the secondary school and college levels** by taking courses that align with certificate, diploma, or level-one apprenticeship programs at college. Upper Grand DSB is partnered with three colleges through the School College Work Initiative, a consortium that covers all costs for students to participate.

Dual Credit programs are packaged with two credits in co-operative education and are taught in semester two, where the co-op placement hours are scheduled around the dual credit instruction hours. Possible course offerings are given under the “**Course Description**” section of the calendar.

Note: Registration is through an application process only. Please visit the Guidance Department to inquire.

CONTINUING EDUCATION

Continuing Education offers Grade 10 to 12 credit courses during the day, evening and summer. Courses are offered on a 3-semester basis: September to January, February to June, and July to August (“summer school”). **Please contact the guidance office for information regarding these programs**

Students

- * Day school students are admitted only with a “day school eligibility form” signed at the discretion of the day school principal, and only when the course is not available in the day school program.
- * Contact your day school guidance office for current course brochures and registration information.
- * Students who are NOT attending day school and wish to register for night school require a Letter of Leaving and an Official Student Transcript from their last high school.

Adults

- * Enrol in full credit night school or adult day school programs.
- * A co-op education program is available to assist with on-the-job training.
- * Participate in a wide range of interest courses to enhance personal development.
- * Join classes in Adult Basic Education in our adult daytime or evening courses.
- * English as a Second Language, Numeracy, Literacy, and Education in the Workplace courses are featured.
- * Complete credit program through correspondence.
- * Courses will be offered if enrolment meets the minimum requirements.

LIFE SKILLS PROGRAM

This program for the developmentally challenged broadens the transition from school to independence. Instruction concentrates on independent living skills and vocational training. Decisions about enrolment in this program are made centrally through the Program Department’s Special Education review process.

COURSE CALENDAR

GENERAL INFORMATION ABOUT COURSE SELECTION

Compulsory and Prerequisite Course

A **compulsory course** is a course that must be successfully completed in order to obtain an O.S.S.D. A **prerequisite course** is a course that must be successfully completed before another course at the next level can be taken. A full credit is granted when a course of 110 hours is completed successfully.

Course Selection

Part way through Grade 9, you will choose courses for Grade 10. Grade 10 courses will prepare you Grade 11 and 12, and for what you want to do when high school is done. Think of Grade 11 and 12 courses as **pathways** to post-secondary destinations. Many senior courses require students to have successfully completed a particular course in Grade 10 or 11 (a prerequisite). Make sure you have the prerequisites that will allow entry into the senior courses needed. **Take course selection seriously, the choices you make now affect whether or not courses run next year.**

Changes Courses during the Semester

After a student has selected courses online, course changes can be made only with the permission of both the parent (and the student if he/she is 18 years of age), and the school. Be advised that it can be difficult to get into another course at a later date since it may be full. No changes of courses may be made after **six (6)** school days from the beginning of a semester. Changes in the level of a course may be made up to **four (4) weeks** after the beginning of the semester, depending on the circumstances.

Transfer Courses

Transfer courses are designed to enable students who alter their post secondary plans to transfer from one type of course to another in grades 9, 10, and 11. Transfer courses provide the knowledge and skills required to bridge the gap between two courses of different types. These courses provide partial credits and enable students to prepare themselves for the next level and are offered as follows:

- Primarily through Continuing Education via application through the Guidance Office.
- Results of courses taken through Continuing Education will be reported to the appropriate schools.

Substitutions for Compulsory Courses

In order to allow flexibility in designing a student's program and to ensure that all students can qualify for the secondary school diploma, substitutions may be made for a limited number of compulsory credit courses. To meet individual students' needs, principals may replace up to three of these courses (or the equivalent in half courses) with courses from the remainder of those that meet the compulsory credit requirements. In all cases, however, the sum of compulsory and optional credits will not be less than thirty for students aiming to earn the Ontario Secondary School Diploma and not less than fourteen for those aiming to earn the Ontario Secondary School Certificate.

Course Load

In order to offer every opportunity for students to get the best start possible towards their OSSD, we require our Grade 9 and 10 students to take a full program of 8 credits. We also expect our Grade 11 students to continue with a full course load of 8 credits. 'Spares' will not be granted to students who are under 16 years of age or who have earned less than 16 credits.

Enhancement Fees

Some courses at John F. Ross have enhancements. Field trips and optional materials are examples where fees may be requested. Please refer to the course descriptions that follow for more details.

Courses of Study

Students and parents will receive a copy of the course of study for each class taken for their perusal and acknowledgement. Course of study outlines will also be available on the school website under Departments for immediate access. Copies of all courses of study are also filed in the main office each semester and may be viewed by appointment.

Ontario Student Transcript and Ontario Student Record

The Ontario Student Transcript (O.S.T.) is a provincially standardized document which is the student's official record of credits earned. Copies are available to students on request. The O.S.T. is kept in the student's Ontario Student Record folder (O.S.R.). This folder contains achievement results, credits earned, and other information important to the education of the student. The O.S.R. is created under the authority of the Education Act when a student enters the Ontario school system, and moves with the student from school to school. The contents of the O.S.R. are protected under the Freedom of Information and Protection of Privacy Act. The parents/guardians and the student may examine the contents of the O.S.R. on request, with the assistance of the principal or designated administrator.

Full Disclosure

The Ontario Student Transcript will list all Grades 11 and 12 courses attempted, including those failed or repeated. Only those dropped prior to 5 school days after the midterm report has been distributed are not reported. A student must be careful to meet the deadline to drop a course from his/her timetable. Failure to meet this deadline could result in a course remaining on the Ontario Student Transcript and thus part of the student's permanent record.

The Prior Learning Assessment and Recognition Process (PLAR)

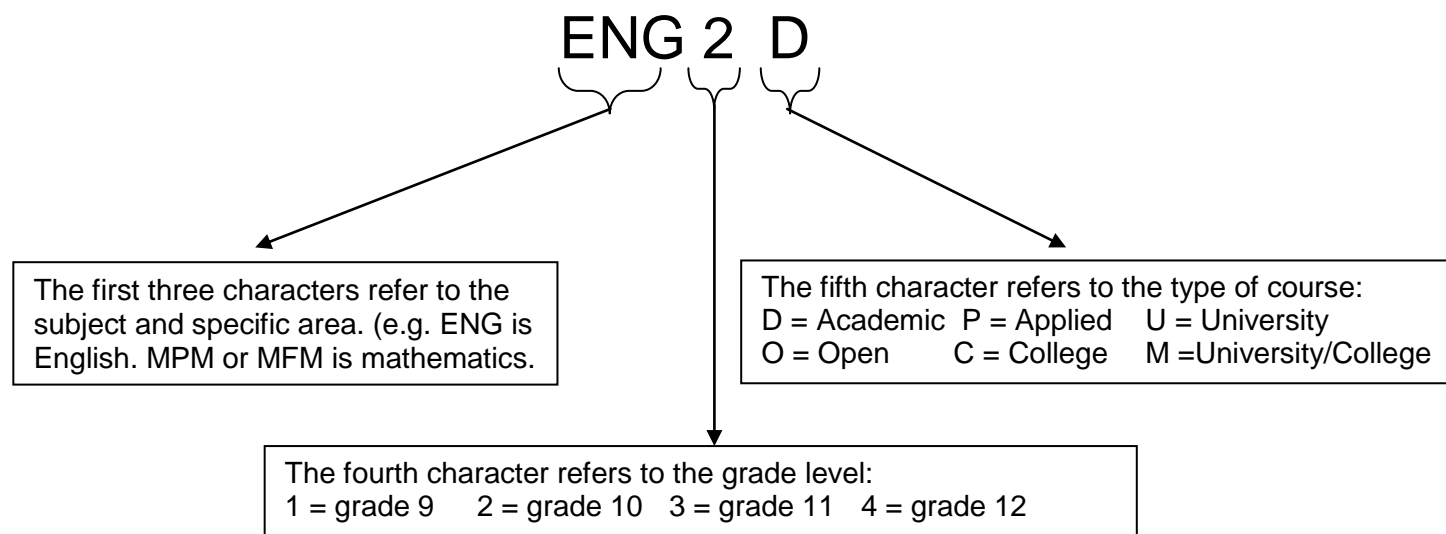
Prior Learning Assessment and Recognition (PLAR) is the formal evaluation and credit-granting process whereby students may obtain credits for prior learning – the knowledge and skills that students have acquired – in both formal and informal ways, outside secondary school. The PLAR process involves either: **i) equivalency**, assessing credentials from other jurisdictions or **ii) challenge**, formal evaluation of students' prior learning for the purpose of granting credit for a Grade 10, 11, or 12 courses developed from a provincial curriculum policy document published in 1999 or later. The following are to hold true in order for a **challenge** to proceed and be successful:

- Students may challenge for credit for a course only if they can provide reasonable evidence to the principal that they would be likely to be successful in the challenge process.
- The challenge process may not be used as a way for students to improve their mark in a course for which they have already earned a credit, or as a way to obtain a credit for a course they have previously failed.
- Students may earn no more than four credits through the challenge process, including a maximum of two credits in any one discipline.
- In cases where a student who is an adult, or the parent of a student who is not an adult, disagrees with the decision of the principal about whether the student should challenge for credit, the parent or adult student may ask the appropriate Superintendent of Education to review the matter.
- Students cannot be granted credits through the challenge process for any of the following courses: a course in any subject if a credit has already been granted for a course in that subject in a later grade, a transfer course, a locally developed course, a Cooperative education course, a course in English as a second language, and a course in French as a Second Language (FSL).
- Assessment and Evaluation through the PLAR process will be based on the curriculum expectations and the achievement charts in the Ontario curriculum policy documents. This process will align with current ministry requirements for assessment and evaluation. A student's level of achievement will be recorded as a percentage grade on the student's transcript in the same way as achievement in other courses.
- **Applications for PLAR challenges must be submitted to the principal before December 31 of the school year.**

For further information on the PLAR process, please refer to *Ontario Schools, Kindergarten to Grade 12: Policy and Program, 2011 (OS)*, as well as *Policy and Program Memoranda 129 and 132*, or contact the school principal.

COURSE CODES

Each high school course is identified by a five character “code”. For example:



A sixth character can be added for school administrative use to identify unique programs for example for French Immersion courses the sixth character is an “F”. So, the code for Grade 10 academic History would be CHC2D, and for Grade 10 French Immersion the code would be CHC2DF.

COURSE ORGANIZATION

Grades 9 and 10

Grade 9 and 10 courses are organized into three types: Academic, Applied and Open. All courses prepare students for study in the senior grades. Because the emphasis is on core concepts in Grade 9 and 10 courses, students may move from one type of course to another between Grade 9 and 10. Moving from Grade 9 Applied course to a Grade 10 Academic course is possible but it will not be easy. Successful completion of the Grade 9 program, completion of a transfer course, excellent work habits and motivation are the key to moving from Applied to Academic.

Academic Courses

Academic courses emphasize theoretical and abstract applications. They require greater depth, abstract thinking and problem solving. Academic courses incorporate practical applications when appropriate. They emphasize essential concepts of a subject and explore related material.

Applied Courses

Applied courses emphasize practical, concrete applications of essential concepts. They incorporate theory when appropriate and put greater emphasis on practical, hands-on applications of the essential concepts.

Open Courses

Open courses have the same expectation and are appropriate for ALL students. Open courses are designed to provide students with a broad educational base that will prepare them for their studies in Grade 11 and 12.

Grades 11 And 12

Grades 11 and 12 courses are organized into five types: University Preparation, University/College Preparation, College Preparation, Workplace Preparation and Open. Students should make their choices on the basis of their interest level, achievement, and career goals. Prerequisites are specified for many of the courses offered in Grades 11 and 12.

University Preparation Courses

University preparation courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements for university programs.

University/College Preparation

University/College preparation courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements for specific programs offered at universities and colleges.

College Preparation Courses

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

Workplace Preparation Courses

Workplace preparation courses are designed to equip students with the knowledge and skills they need to meet the expectations of employers. They are suitable for students who plan to enter the workplace directly after graduation, or as completion of the requirements for admission to certain apprenticeship or other training programs.

Open Courses

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

EDUCATIONAL AND CAREER PLANNING WEBSITES

Ontario Curriculum Course Descriptions and Prerequisites (Ministry of Education)	www.edu.gov.on.ca
Grade 9 Math and Grade 10 Literacy Tests	www.egao.com
<p align="center"><u>Post Secondary School Information</u></p> <div> <div> <p>Ontario College Information</p> <ul style="list-style-type: none"> • www.ontariocolleges.ca • www.degreesindemand.ca </div> <div> <p>Ontario College University Transfer Guide</p> <ul style="list-style-type: none"> • www.ocutg.on.ca </div> <div> <p>University Information</p> <ul style="list-style-type: none"> • www.ouac.on.ca • http://www.electronicinfo.ca/en/ </div> <div> <p>General Information</p> <ul style="list-style-type: none"> • www.myblueprint.ca (requires password) • www.schoolfinder.com </div> </div>	
<p align="center"><u>Post-Secondary Financial Aid Resources</u></p> <div> <div> <p>Ontario Student Assistance Program (OSAP)</p> <ul style="list-style-type: none"> • www.osap.gov.on.ca </div> <div> <p>General Information</p> <ul style="list-style-type: none"> • www.debtfreegrad.com • www.canlearn.ca </div> <div> <p>Scholarships and awards</p> <ul style="list-style-type: none"> • www.scholarshipscanada.com • www.studentawards.com </div> </div>	
<p align="center"><u>Career Exploration</u></p> <div> <div> <p>Apprenticeship and skilled Trades</p> <ul style="list-style-type: none"> • http://www.apprenticesearch.com/ • http://www.promotingskilledtrades.com/ </div> <div> <p>General</p> <ul style="list-style-type: none"> • http://www.jobsetc.gc.ca/eng/ • http://www.tcu.gov.on.ca/eng/ojf/index.html </div> <div> <p>Career Searching and Planning</p> <ul style="list-style-type: none"> • http://www.careerccc.org/ • http://www.mazemaster.on.ca/ • www.myblueprint.ca (requires password) • http://public.careercruising.com/ca/en/ (requires password) </div> </div>	

COURSE CODES

	Grade 9	Grade 10	Grade 11	Grade 12
The Arts				
Dance	ATC1O	ATC2O	ATC3O ATC3M	ATC4M
Drama	ADA1O	ADA2O ADC2O ADD2O ADA2OF*	ADA3M ADA3O ADC3M ADC3O ADD3M ADD3O ADP3M ADP3O ADT3O ADT3M	ADA4M ADA4E ADC4M ADD4M ADP4M ADT4M
Music	AMU1OB AMU1OE AMV1O	AMU2OB AMU2OE AMV2O	AMU3M AMV3M AMG3M AMG3O	AMU4M AMV4M AMG4M AMR4M
Visual Arts	AVI1O AVI1OF	AVI2O ASM2O	AVI3M AVI3MF* AWR3O AWA3O AEA3O	AVI4M AWM4M
*offered in alternate years “F” designates French Immersion				
Business				
*students may only take either BBI1O or BBI2O for credit. *offered in alternate years “F” designates French Immersion	BBI1O*	BBI2O*	BAF3M BMI3C BDI3C CLU3M	BAT4M BBB4M BOG4E BOH4M CIA4U CLN4U IDC4U1
Canadian and World Studies				
Economics, Law and Politics			CLU3M*	CIA4U* CLN4U* CPW4U CPW4UF
Geography	CGC1D CGC1P CGC1DF		CGF3M CGG3O CGG3OF**	CGR4M CGW4U
History		CHC2D CHC2P CHC2DF CHV2O CHV2OF	CHA3U CHW3M CHH3C CHH3E	CHY4U CHY4C CHW4E
Native Studies			NDA3M	
*offered through Business Department **offered in alternate years “F” designates French Immersion				

	Grade 9	Grade 10	Grade 11	Grade 12
Computer Studies				
students may only take either BTT10 or BTT20 for credit.	BTT10 ICS20	BTT20* ICS20 TEJ201	BTA3O ICS3U ICS3C TEJ3E1 TEJ3M1	BTX4C BTX4E ICS4U ICS4C TEJ4E1 TEJ4M1
Co-op Education				
Students will select FTECO2 for regular co-op and FTECO2T for technology coop. Students wishing to choose the High Performance Athlete option will select FTECO2, but must complete an application Students are assigned subject based codes once co-op has begun. Students who are working towards an apprenticeship (OYAP) may be eligible for a 4 credit co-op placement in semester 2.			FTECO2 FTECO2T	
English				
	ENG1D ENG2DB ENG1P ENG1L	ENG2D ENG2DB ENG2P	ENG3U ENG3UB ENG3C ENG3E EMS3O IDC3O1	ENG4U ENG4UB ENG4C ENG4E ETS4U ETS4C EWC4U EWC4C OLC4O IDC4O1 IDC4U2
English as a Second Language				
Possible Course Combinations				
Level	ESL/ELD Course		Additional Credits	
Beginner	ESL/ELD Level 1 (AO) ESL/ELD Level 2 (BO)		BTT1OE Computers CGC1PE Geography HIF1OE Family Studies MFM1PE Math GLS1OE Learning Strategies	
Intermediate	ESL/ELD Level 2 (BO) ESL/ELD Level 3 (CO)		CHC2PE History CHV2OE Careers GLC2OE Civics SNC1PE Science ADA1OE Drama	
Advanced	ESL/ELD Level 4 (DO) ESL/ELD Level 5 (EO)			

	Grade 9	Grade 10	Grade 11	Grade 12
Guidance and Career Education				
Learning Strategies (Offered via Special Education/and the English Department)	GLE10/ GLS1O			
Career Studies		GLC2O GLC2OF		
Leadership and Peer Support (Offered via Special Education)			GPP3O	
"F" designates French Immersion				
Health and Physical Education				
"X" designates Female only "Y" designates male only "F" designates French Immersion	PPL1OX PPL1OY	PPL2OX PPL2OY PAF2OY	PPL3OX PPL3OY PPL3OF PAF3O PAF3OX PAD3O	PPL4OX PPL4OY PSE4U PLF4C1 PAF4O PAF4OX
Languages				
French as a Second Language: Core French	FSF1D FSF1P	FSF2D FSF2P	FSF3U	FSF4U
French Immersion	FIF1D	FIF2DF TPJ2OF	FIF3U	FIF4U
International Languages Italian		LWIBD	LWICU	LWIDU
Spanish		LWSBD	LWSCU	LWSDU
Mathematics				
"F" designates French Immersion	MPM1D MPM1DF MFM1P MAT1L	MPM2D MPM2DB MFM2P MAT2L	MCR3U MCF3M MBF3C MEL3E	MHF4U MCV4U MDM4U MCT4C MAP4C MEL4E
Science				
** offered through Geography "F" designates French Immersion	SNC1D SNC1P SNC1DF	SNC2D SNC2DB SNC2P	SBI3U SCH3U SPH3U SBI3C SVN3M SVN3E	SBI4U SCH4U SPH4U SCH4C SPH4C SNC4M SNC4E SES4U**

	Grade 9	Grade 10	Grade 11	Grade 12
Social Sciences and Humanities				
Family Studies	HIF1O	HFN2O	HNC3C HLS3O HPC3O TFJ3CD HFC3M	HFA4MU/C HFA4MF* HHG4M HNB4M HDC4C HIP4O
General Social Sciences			HSP3U/C	HSB4M HJT4U HJT4UF*
World Religions			HRT3M HRF3O HRT3MF*	
*offered in alternate years – French Immersion				
Technological Education (“F” designates female only classes)				
Broad-Based Technology	TIJ1O1 TIJ1OX			
Communications Technology		TGJ2O1	TGJ3O1 TGJ3M1	TGJ4O1 TGJ4M1 TGJ4M2
Construction Tech and Woodworking		TCJ2O1 TCJ2OX	TCJ3C1/2 TCJ3E1 TCJ3E2 TWJ3E	TCJ4C1/2 TCJ4E1 TCJ4E2 TWJ4E
Green Industries (Forestry, Landscaping and Horticulture Technology)		THJ2O1	THJ3M1 THJ3E1	THJ4M1 THJ4M2 THJ4E1
Hairstyling and Aesthetics		TXJ2O1	TXJ3E1	TXJ4E1
Manufacturing Technology		TMJ2O1	TMJ3E1 TMJ3E2 TMJ3M1 TMJ3M2 TMJ3C1 TMJ3C2	TMJ4E1 TMJ4E2 TMJ4M1 TMJ4M2 TMJ4C1 TMJ4C2
Transportation Technology		TTJ2O1	TTJ3O1/2 TTJ3OX TTJ3CX TTJ3C1 TTJ3C2	TTJ4E1 TTJ4E2 TTJ4C1 TTJ4C2
Technology Design		TDJ2O1	TDJ3M1/2 TDJ3O1	TDJ4M1/2 TDJ4O1
“X” designates female only				

GRADE 9 PROGRAM OUTLINE

The Grade 9 program will consist of both **COMPULSORY** and **OPTIONAL** courses. All Grade 9 students must take 8 courses. Promotion is on a subject-by-subject basis.

COMPULSORY COURSES

English, Mathematics, Science, French, and Geography

Compulsory courses will be streamed courses offered at the Academic and Applied level. Additionally, locally developed grade 9 Math and English courses will be offered. Students may take an Academic course in one subject, and an Applied course in another. Be sure to note that future plans are directly related to course selection. The **Individual Pathway Plan** is one way to record your course selections and plan for the future. **Students MUST choose 1 from each of the following columns.**

PROGRAM	ENGLISH	FRENCH	GEOGRAPHY	MATHEMATICS	SCIENCE
Academic	ENG1D	FSF1D	CGC1D	MPM1D	SNC1D
French Immersion	ENG1D	FIF1D	CGC1DF	MPM1DF	SNC1DF
Applied	ENG1P	FSF1P	CGC1P	MFM1P	SNC1P
Locally Developed	ENG1L			MAT1L	

OPTIONAL COURSES

All optional courses are offered at the **OPEN** level. **Students MUST choose 3 of the following courses on their option sheets.**

COURSE	CODE
Healthy Active Living (Female/Male) 1 Compulsory credit required in high school. Strongly recommend for Grade 9	PPL1OX/PPL1OY
Computer Science (Grade 10 Course but can be taken in Grade 9)	ICS2O
Dance	ATC1O
Dramatic Arts	ADA1O
Music – Vocal	AMV1O
Music - Instrumental (Experienced/Beginner)	AMU1O/1ON
Visual Arts/Visual Arts French Immersion*	AVI1O/AVI1OF
Introduction to Information Technology in Business	BTT1O
Individual and Family Living	HIF1O
Integrated Technologies/Integrate Technology Female	TIJ1O1/TIJ1OX
Introduction to Business (Personal Finance)	BBI1O
Learning Strategies This course is for students who need extra literacy assistance or who have an IEP. It can only be selected with the elementary school principal's approval	GLE1O

***Visual Arts alternates every year. See page 69 for details.**

COURSE DESCRIPTIONS

THE ARTS

Ross Educational Creative Arts Program “**RECAP**”

“Creativity is now as important in education as literacy, and we should treat it with the same status.”
Sir Ken Robinson, *Author/Educator. TEDTalk.*

Ross Educational Creative Arts Program – RECAP – is an enriched Arts program which educates, encourages and challenges students through a variety of Arts courses and experiences.

Students may enrol in a wide range of courses under the disciplines of Dance, Dramatic Arts, Music and Visual Art. As well, a strong tradition of co-curricular Arts programming exists at Ross to supplement academic programming. There are many exciting opportunities for students to participate in award-winning bands, choirs, theatre and dance ensembles, and visual art communities.

Students enrolled in **RECAP** can also elect to join the Specialist High Skills Major-Arts and Culture Program. SHSM- A&C gives students further education and experience with relevant certifications, workshops, field trips, and practical co-op work experience in the Arts, acknowledged on the Ontario Secondary School Graduation Diploma and recognized by post-secondary institutions and employers. In addition, students can work towards attaining a first year university credit by participating in the Advanced Placement Program in the Arts. With support from teaching staff, students can prepare and write the AP exam in order to qualify.

Facilities and classrooms at Ross are dedicated spaces for each discipline. Ross has two fully equipped drama rooms, two music rooms with practice studios, two dance spaces and four art rooms. Also, Ross boasts the 853-seat E. L. Fox Auditorium, the largest theatre in Guelph.

Graduates from the **Ross Arts Program** have enjoyed local and international success. They grace the stages of The Stratford and Shaw Festivals, Toronto's larger theatres, London's West End and on Broadway. They are represented by top talent agencies. They have works displayed in major art galleries. Some have well established careers in the Classical, Pop and Independent Music realm and others are working as theatre technicians with such organizations as Disney and Cirque du Soleil in Las Vegas, New York, London and Paris.

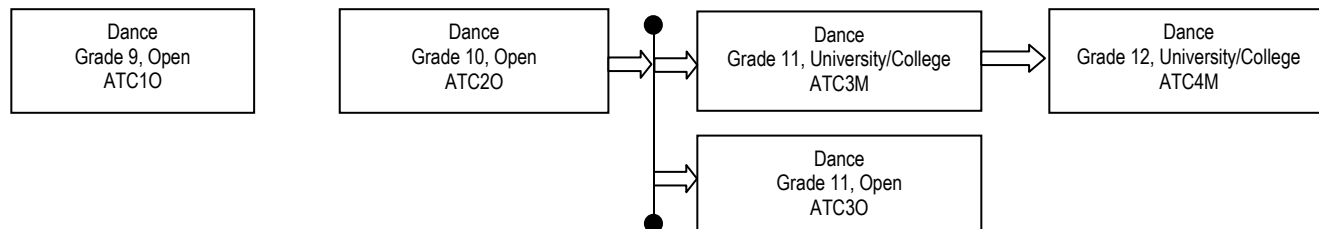
Students with high interest in the Arts need look no further than John F. Ross and the **RECAP/SHSM-A&C** programs where dedicated staff, exceptional facilities, and comprehensive Arts-focused curricular and co-curricular programming make Ross a smart choice.

To learn more about **RECAP** and the application process, please contact Arts Co-Heads Tom Slater or Dale Hobbs at: tom.slater@ugdsb.on.ca or dale.hobbs@ugdsb.on.ca

THE ARTS

ENHANCEMENT FEES IN THE ARTS: Students have the option of paying a fee for enhancements to some courses in the Arts.

DANCE



DANCE, Grade 9, Open

Code: ATC10

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.

Prerequisite: None

DANCE, Grade 10, Open

Code: ATC20

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.

Prerequisite: None

DANCE, Grade 11, Open

Code: ATC30

This course emphasizes the development of students' movement vocabulary relating to dance genres from around the world, 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 tools and techniques throughout the process of creation and presentation, and reflect on how studies in the dance arts affect personal identity.

Prerequisite: Grade 9 or 10 Dance, Open

Dance, Grade 11, University/College Preparation

Code: ATC3M

This course emphasizes the development of students' artistry, improvisational and compositional skills, and technical proficiency in dance genres from around the world. 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

DANCE, Grade 12, University/College Preparation

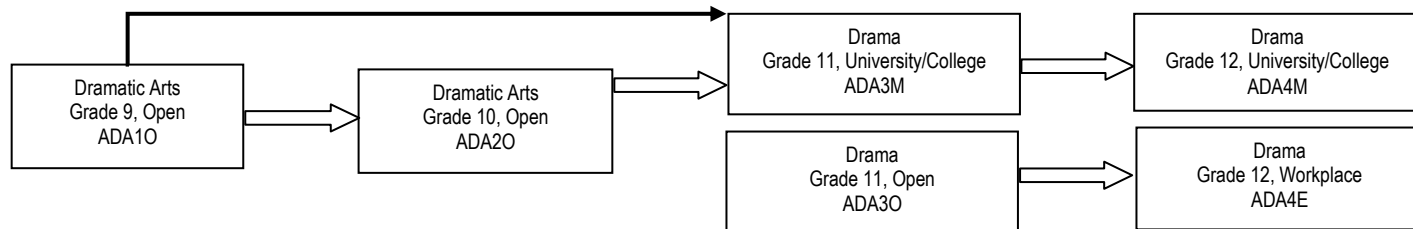
Code: ATC4M

This course emphasizes the development of students' technical proficiency, fluency in the language of movement in dance genres from around the world, and understanding of dance science. 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.

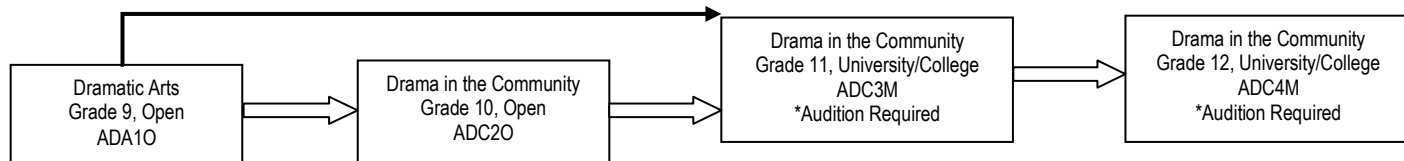
Prerequisite: Dance, Grade 11, University/College Preparation

DRAMATIC ARTS

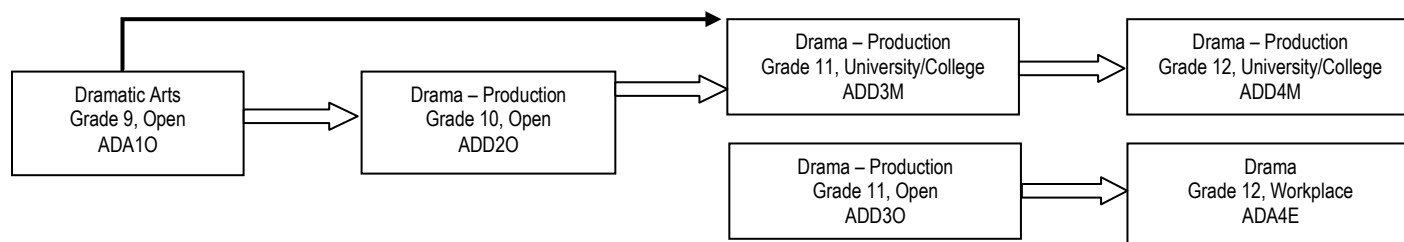
Regular Program



Drama in the Community

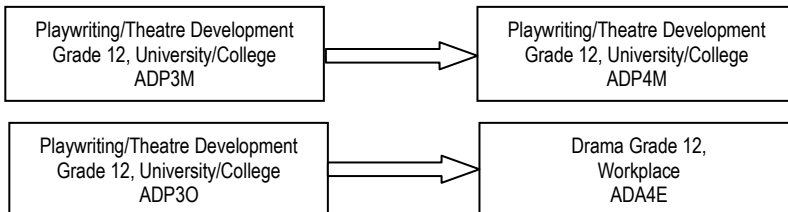


Technical Production

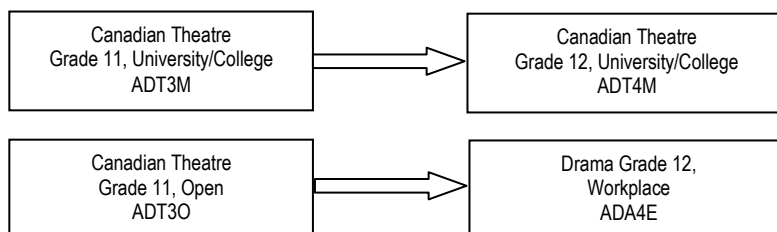


Students wishing to choose any of the options below need to consult with the Department Head. Select any of the grade 11 or 12 options above and you will then be placed in the appropriate course after option selection.

Playwright/Theatre Development



Canadian Theatre



Note: Students can move from one stream to another as long as they have the appropriate prerequisite. For example, a student who has completed ADA3M could take ADP4M.

Regular Program

DRAMA, Grade 9, Open

Code: ADA10

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.

Prerequisite: None

DRAMA, Grade 10, Open

Code: ADA20

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.

Prerequisite: None

DRAMA, Grade 11, University/College Preparation

Code: ADA3M

This course requires students to create and to 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: Dramatic Arts, Grade 9 or 10, Open

DRAMA, Grade 11, Open

Code: ADA3O

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.

Prerequisite: None

DRAMA, Grade 12, University/College Preparation

Code: ADA4M

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: Dramatic Arts, Grade 11, University/College Preparation

DRAMA, Grade 12, Workplace

Code: ADA4E

This course requires students to create and to present a variety of dramatic works. Students will present works by Canadian and other playwrights, and develop original material based on personal narratives, local community issues, or global concerns. They will have hands-on experiences with various aspects of dramatic arts productions, including performance, set design, lighting, costumes, stage and technical management, and marketing. Students will also explore possible careers related to the dramatic arts.

Prerequisite: Dramatic Arts, Grade 11, University/College Preparation or Open

Drama in the Community

DRAMA IN THE COMMUNITY, Grade 10, Open

Code: ADC20

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

Prerequisite: None

DRAMA IN THE COMMUNITY Grade 11, University/College Preparation

Code: ADC3M

This course requires students to create and to perform dramatic presentations. Students will analyse, interpret, and perform works of drama from various cultures, including Western plays from around 1900. Students will also do research on different acting styles and conventions for their presentations, create original works, and analyse the functions of playwright, director, actor, producer, designer, technician, and audience. The students will produce theatrical works for public presentations.

Prerequisite: Dramatic Arts, Grade 9 or 10, Open. **ADC20 is strongly recommended. Audition**

DRAMA IN THE COMMUNITY, Grade 12, University/College Preparation

Code: ADC4M

This course requires students to experiment with forms and conventions in dramatic literature, and to create adapt and present dramatic works. Students will do research on dramatic forms, conventions, themes, and theories of acting and directing from different historical periods, and apply their knowledge of these in analysing and interpreting dramatic literature, including Canadian works and works from various cultures in the late twentieth century. Students will also examine the significance of dramatic arts in various cultures. **The students will produce plays for public performance.**

Prerequisite: Dramatic Arts, Grade 11, University/College Preparation. **ADC3M is strongly recommended. Audition**

Technical Production

DRAMA: Technical Production, Grade 10, Open

Code: ADD20

This course requires students to explore actively dramatic forms and techniques, using their own ideas and concerns as well as sources selected from a wide range of authors, genres, and cultures. Student learning will include identifying and using the principles of space, time, voice, and movement in creating, sustaining, and communicating authentic roles within a drama. Students will assume responsibility for decisions made in the creation and presentation of the drama, and will analyse and reflect on the experience. **The students will concentrate on the elements of technical theatre, including sets, props, costumes, lighting, sound and makeup. They will apply their knowledge to actual productions in the class, school and community.**

Prerequisite: None

DRAMA: Technical Production, Grade 11, University/College Preparation

Code: ADD3M

This course requires students to create and to present dramatic works. Students will do research on and study such types of contemporary theatre as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyse and reflect on dramatic works; and develop their communication and other skills useful in a variety of careers. **The students will concentrate on the elements of technical theatre, including sets, props, costumes, lighting, sound and makeup. They will apply their knowledge to actual productions in the class, school and community.**

Prerequisite: Dramatic Arts, Grade 9 or 10, Open, **Strongly Recommended: ADD20**

DRAMA: Technical Production, Grade 11, Open**Code: ADD3O**

This course requires students to create and to present dramatic works. Students will do research on and study such types of contemporary theatre as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyse and reflect on dramatic works; and develop their communication and other skills useful in a variety of careers. **The students will concentrate on the elements of technical theatre, including sets, props, costumes, lighting, sound and makeup. They will apply their knowledge to actual productions in the class, school and community.**

Prerequisite: Dramatic Arts, Grade 9 or 10, Open. **Strongly recommended:** ADD2O

DRAMA: Production, Grade 12, University/College Preparation**Code: ADD4M**

This course requires students to create and to present a variety of dramatic works. Students will present works by Canadian and other playwrights, and develop original material based on personal narratives, local community issues, or global concerns. They will have hands-on experiences with various aspects of dramatic arts productions, including performance, set design, lighting, costumes, stage and technical management, and marketing. Students will also explore possible careers related to the dramatic arts. **The students will concentrate on the elements of technical theatre, including sets, props, costumes, lighting, sound and makeup. They will apply their knowledge to actual productions in the class, school and community.**

Prerequisite: Dramatic Arts, Grade 11, University/College Preparation. **Strongly recommended:** ADD3M

Playwright/Theatre Development

DRAMA: Theatre Development, Grade 11, University/College Preparation**Code: ADP3M**

This course requires students to create and to present a variety of dramatic works. Students will present works by Canadian and other playwrights, and develop original material based on personal narratives, local community issues, or global concerns. They will have hands-on experiences with various aspects of dramatic arts productions, including performance, set design, lighting, costumes, stage and technical management, and marketing. Students will also explore possible careers related to the dramatic arts. **Students will focus on the development of theatre through performance, production and theory.**

Prerequisite: ~~Prerequisite:~~ Dramatic Arts, Grade 9 or 10, Open.

DRAMA: Theatre Development, Grade 12, Open**Code: ADP3O**

This course requires students to create and to present a variety of dramatic works. Students will present works by Canadian and other playwrights, and develop original material based on personal narratives, local community issues, or global concerns. They will have hands-on experiences with various aspects of dramatic arts productions, including performance, set design, lighting, costumes, stage and technical management, and marketing. Students will also explore possible careers related to the dramatic arts. **Students will focus on the development of theatre through performance, production and theory.**

Prerequisite: None. **Strongly recommended:** ADA1O or ADA2O

DRAMA: Theatre Development, Grade 12, University/College Preparation**Code: ADP4M**

This course requires students to create and to present a variety of dramatic works. Students will present works by Canadian and other playwrights, and develop original material based on personal narratives, local community issues, or global concerns. They will have hands-on experiences with various aspects of dramatic arts productions, including performance, set design, lighting, costumes, stage and technical management, and marketing. Students will also explore possible careers related to the dramatic arts. **Students will focus on the development of theatre through performance, production and theory.**

Prerequisite: Dramatic Arts, Grade 11, University/College Preparation. **Strongly recommended:** ADP3M

Canadian Theatre

DRAMA: Canadian Theatre, Grade 11, University/College Preparation

Code: ADT3M

This course requires students to create and to present dramatic works. Students will do research on and study such types of contemporary theatre as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyze and reflect on dramatic works; and develop their communication and other skills useful in a variety of careers. **Students will focus on the creation of Canadian works through performance, production and theory.**

Prerequisite: Dramatic Arts, Grade 9 or 10, Open

DRAMA: Canadian Theatre, Grade 11, Open

Code: ADT3O

This course requires students to create and to present dramatic works. Students will do research on and study such types of contemporary theatre as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyze and reflect on dramatic works; and develop their communication and other skills useful in a variety of careers. **Students will focus on the creation of Canadian works through performance, production and theory.**

Prerequisite: None. Dramatic Arts, Grade 9 or 10, Open

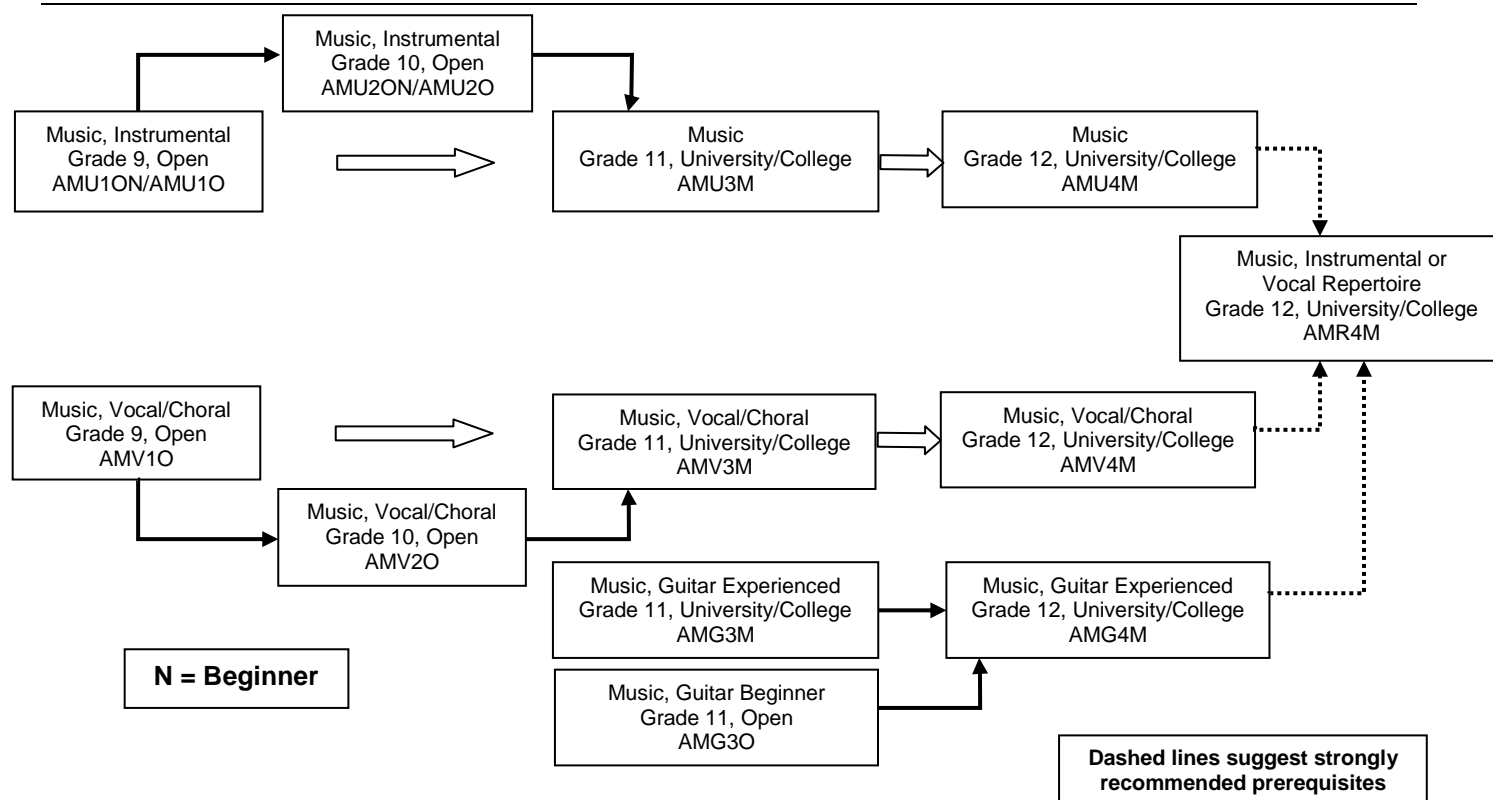
DRAMA: Canadian Theatre, Grade 11, University/College Preparation

Code: ADT4M

This course requires students to create and to present dramatic works. Students will do research on and study such types of contemporary theatre as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyze and reflect on dramatic works; and develop their communication and other skills useful in a variety of careers. **Students will focus on the creation of Canadian works through performance, production and theory.**

Prerequisite: Dramatic Arts, Grade 11, University/College Preparation. **Strongly recommended:** ADT3M

MUSIC



MUSIC, Grade 9, Open (Instrumental – Beginning)**Code: AMU10N**

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. **This course is for students who wish to begin a new brass, woodwind or percussion instrument and have little or no experience.**

Prerequisite: None**MUSIC, Grade 9, Open (Instrumental – Experienced)****Code: AMU10**

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. **This course is for students who have some previous playing experience on a brass, woodwind or percussion instrument.**

Prerequisite: None**MUSIC: VOCAL/CHORAL, Grade 9, Open (Vocal/Choral)****Code: AMV10**

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

Prerequisite: None**MUSIC, Grade 10, Open (Instrumental – Beginner)****Code: AMU20N**

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. **This course is for students who wish to begin a new brass, woodwind or percussion instrument and have little or no experience.**

Prerequisite: None**MUSIC, Grade 10, Open (Instrumental – Experienced)****Code: AMU20**

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. **This course is a continued study of brass, woodwind or percussion instruments. Students should have previous playing experience.**

Prerequisite: None

MUSIC: VOCAL/CHORAL, Grade 10, Open (Vocal/Choral)**Code: AMV20**

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

Prerequisite: None**MUSIC, Grade 11, University/College Preparation****Code: AMU3M**

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. **This course is a continued study of brass, woodwind or percussion instruments.**

Prerequisite: Music, Grade 9 or 10, Open**MUSIC: VOCAL/CHORAL, Grade 11, University/College Preparation****Code: AMV3M**

This course emphasizes the appreciation, analysis and performance of various kinds of music, including baroque and classical music, popular music and Canadian and non-Western music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyse and evaluate live and recorded performances. They will continue to increase their understanding of the elements of music while developing their technical and imaginative abilities. **This course consists of the continued development of vocal technique through choral music.**

Prerequisite: Music - Vocal/Choral, Grade 9 or 10, Open**MUSIC: GUITAR, BEGINNER, Grade 11, Open****Code: AMG3O**

This course covers a variety of expectations through the curriculum strands of Theory, Creation and Analysis, using the guitar as the tool. While students may have some basic knowledge and understanding of music, **this is essentially a first-year course.** Guitar technique will include finger-picking and flat-picking in well-known musical styles. Repertoire will include popular and contemporary genres. Students will perform appropriate works as well as plan, produce and perform compositions of their own, in groups and independently, and will evaluate their results. **It is highly recommended that students bring their own acoustic guitars. A very limited number of guitars are available for student use.**

Prerequisite: None**MUSIC: GUITAR, EXPERIENCED Grade 11, University/College Preparation****Code: AMG3M**

This course covers a variety of expectations through the curriculum strands of Theory, Creation and Analysis, using the guitar as the tool. Students must have some knowledge and understanding of music and guitar technique. **This is not a beginning level course.** Guitar technique will include finger-picking and flat-picking in well-known musical styles. Repertoire will include popular and contemporary genres. Students will perform appropriate works as well as plan, produce and perform compositions of their own, in groups and independently, and will evaluate their results. **It is highly recommended that students bring their own acoustic guitars. A very limited number of guitars are available for student use.**

Prerequisite: None

MUSIC: GUITAR, Grade 12, University/College Preparation**Code: AMG4M**

This course is a continuation of the Grade 11 experienced guitar course. Composition will be further developed, particularly in the genre of popular song. Theory will as well be further developed through more challenging repertoire where students will employ a more advanced playing technique. Students will be required to develop a thorough understanding of the language of music which will include the prevailing technology, and of music history as it pertains particularly to the guitar. **It is highly recommended that students bring their own acoustic guitars. A very limited number of guitars are available for student use.**

Prerequisite: Guitar Music, Grade 11, University/College Preparation or Open

MUSIC: INSTRUMENTAL, Grade 12, University/College Preparation**Code: AMU4M**

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 or Open

MUSIC: VOCAL/CHORAL, Grade 12, University/College Preparation**Code: AMV4M**

This course emphasizes the appreciation, analysis and performance of music from the romantic period and the twentieth century, including art music, jazz, popular music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects. **This course consists of the continued development of vocal technique through choral and solo vocal music.**

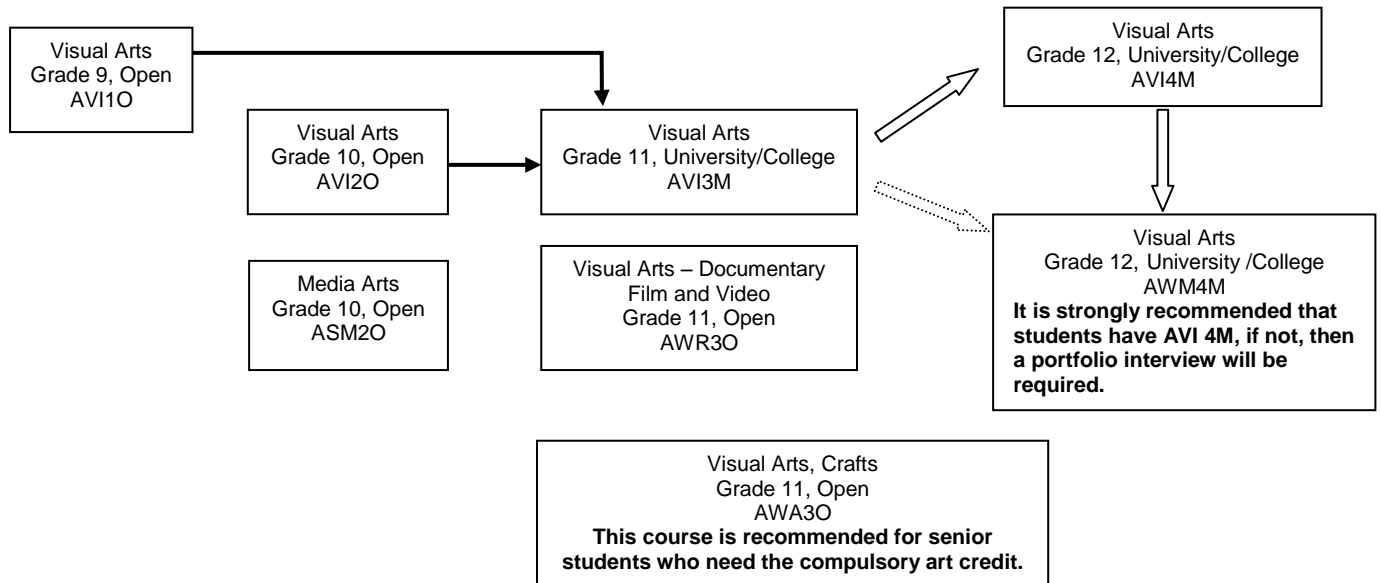
Prerequisite: Music - Vocal/Choral, Grade 11, University/College Preparation or Open

MUSIC: INSTRUMENTAL, VOCAL or GUITAR REPETOIRE, Grade 12, University/College Preparation**Code: AMR4M**

This course emphasizes the appreciation, analysis, and performance of music from the romantic period and the twentieth century, including art music, popular music, and Canadian and non-Western music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyze and evaluate live and recorded performances. They will continue to increase their understanding of the elements of music while developing their technical and imaginative abilities. **This course is an extension of the grade 12 instrumental, vocal or guitar courses and focuses on repertoire and performance. Students will select Instrumental, Guitar or Vocal music.**

Prerequisite: Strongly recommended: Any Grade 12 Music, University/College Preparation

VISUAL ARTS



VISUAL ARTS, Grade 9, Open

Code: AVI1O

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

Prerequisite: None

VISUAL ARTS, Grade 10, Open

Code: AVI2O

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

Prerequisite: None

MEDIA ARTS, Grade 10, Open

Code: ASM2O

This course enables students to create media art works by exploring new media, emerging technologies such as digital animation, and a variety of traditional art forms such as film, photography, video, and visual arts. Students will acquire communications skills that are transferable beyond the media arts classroom and develop an understanding of responsible practices related to the creative process. Students will develop the skills necessary to create and interpret media art works.

Prerequisite: None

VISUAL ARTS: CRAFTS, Grade 11, Open**Code: AWA3O**

This course is an exploration of a variety of traditional and contemporary crafts. Studio work may include (depending on student interest) the use of materials such as bone, wood, clay, glass, metal, wire and fibre arts. Students will have the opportunity to create useful and decorative objects while gaining an appreciation and understanding of cultural and creative diversity worldwide. 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. **This course is recommended for senior students who need the compulsory art credit.**

Prerequisite: None**VISUAL ARTS: DOCUMENTARY FILM AND VIDEO, Grade 11, Open****Code: AWR3O**

The objective of this course is to create a documentary video through the compilation of various video and animation techniques. Utilizing both traditional (drawing, painting, sculpture) and non-traditional art-making techniques (film, animation, video, photography, audio) students will explore the genre of documentary filmmaking. Documentary's rich history – particularly at Canada's own National Film Board – will be the impetus for analytical inquiry into the medium and discussion into its' growing global influence. The objectivity of the documentarian will be brought into question through the blending of both camera 'truths' and animation's subjectivity. Student work production will centre on the creation of 'visual voicing' – the expression of idea, in mixed media form, based on content of personal, and hence, global relevance.

Prerequisite: None.**VISUAL ARTS, Grade 11, University/College Preparation****Code: AVI3M**

This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using 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 art form (e.g. photography, video, computer graphics, and information design).

Prerequisite: Visual Arts, Grade 9 or 10, Open**VISUAL ARTS, Grade 12, University/College Preparation****Code: AVI4M**

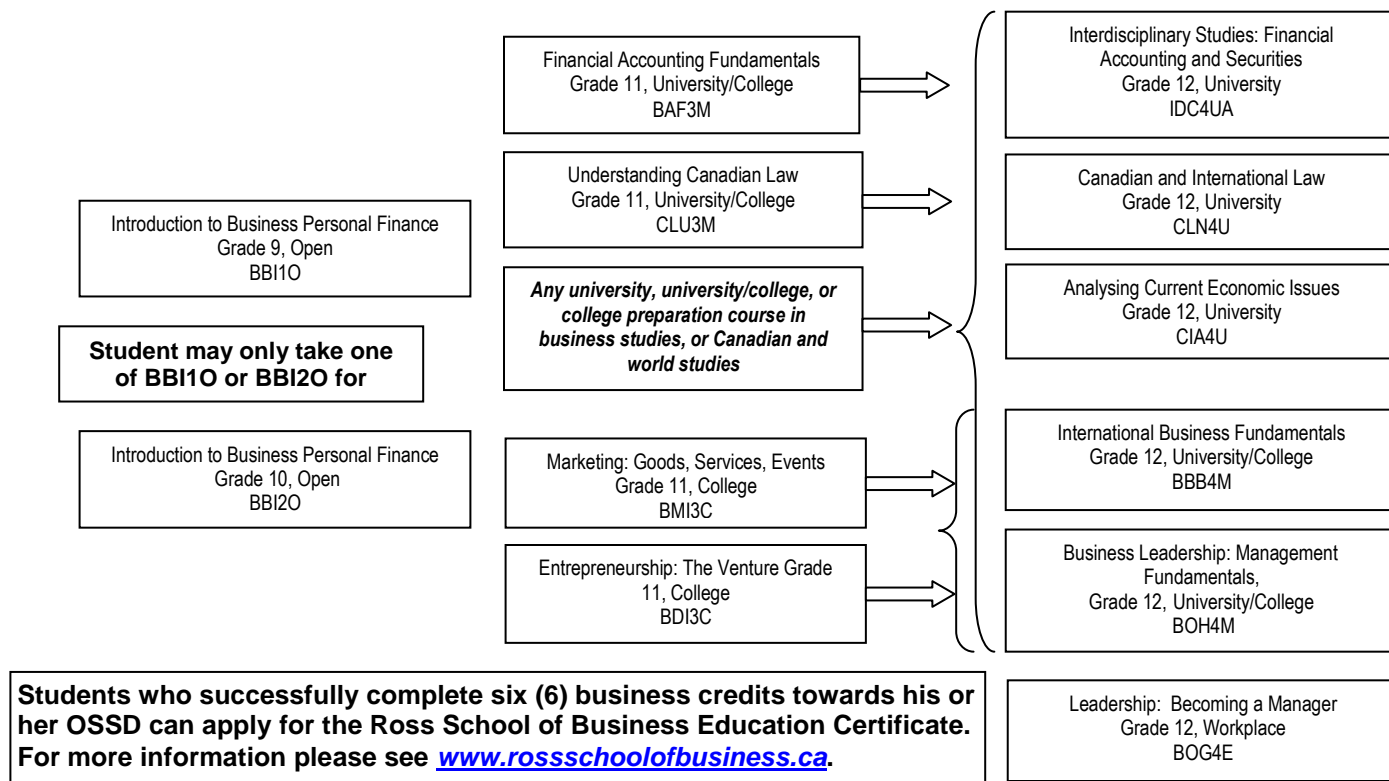
This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore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

Prerequisite: Visual Arts, Grade 11, University/College Preparation**VISUAL ARTS, Drawing and Painting, Grade 12, University/College Preparation****Code: AWM4M**

This course focuses on enabling students to refine their use of the creative process when creating and presenting two dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct selected drawings and paintings 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.

It is strongly recommended that students have AVI4M. If not, then a portfolio interview will be required.

BUSINESS STUDIES



INTRODUCTION TO BUSINESS, Grade 9 or 10, Open

Code: BBI10 or BBI20

This course introduces students to the world of business. Students will develop an understanding of the functions of business, including accounting, marketing, information and communication technology, human resources, and production, and of the importance of ethics and social responsibility. This course builds a foundation for further studies in business and helps students develop the business knowledge and skills they will need in their everyday lives. **Students may only take BBI10 or BBI20. This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information.**

Prerequisite: None

FINANCIAL ACCOUNTING FUNDAMENTALS, Grade 11, University/College Preparation

Code: BAF3M

This course introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of accounting for a service and a merchandising business, computerized accounting, financial analysis, and ethics and current issues in accounting. *This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information.* **Note:** A student workbook is available for \$25.00.

Prerequisite: None

MARKETING: GOODS, SERVICES, EVENTS, Grade 11, College Preparation

Code: BMI3C

This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice. *This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information.*

Prerequisite: None

This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a school-based or student-run business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs. *This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information.*

Prerequisite: None

INTERDISCIPLINARY STUDIES: Financial Accounting and Securities, Grade 12, University Preparation

Code: IDC4U1

This course emphasizes the study of accounting principles related to financial statements. Students will learn about ways in which information in these statements is used in making business decisions, and about the effects on financial statements of using different methods of inventory valuation and adjusting and reversing entries. This course will also investigate financial management, capital markets, and ways in which capital is acquired. Students will also learn about the social impact of corporate financial accounting decisions and will learn to solve problems through theoretical investigation, systems thinking approaches, and case studies. A study of the ways in which the strength of a corporation can be determined through the reading of its annual report will be addressed as well. *This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information.* **Note: A student workbook is available for \$25.00.**

Prerequisite: Any university or university/college preparation course. Successful completion of Introduction to Financial Accounting, Grade 11, University/College Preparation is ***strongly recommended***.

NOTE: Students may take a maximum of three (3) interdisciplinary studies courses – one each of IDC3O, IDC4O and IDC4U

LEADERSHIP: BECOMING A MANAGER, Grade 12, Workplace Preparation

Code: BOG4E

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. *This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information.*

Prerequisite: None

INTERNATIONAL BUSINESS FUNDAMENTALS, Grade 12, University/College

Code: BBB4M

This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for post-secondary programs in business, including international business, marketing, and management. *This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information.*

Prerequisite: None

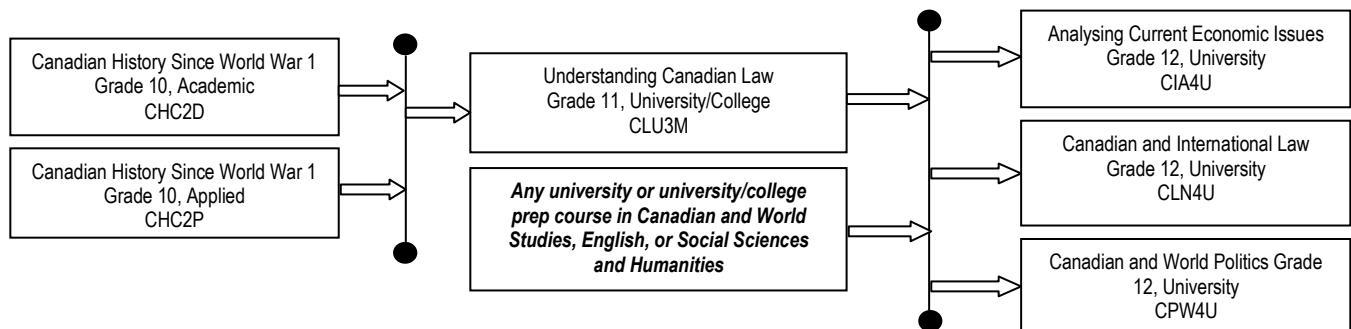
BUSINESS LEADERSHIP: MANAGEMENT FUNDAMENTALS, Grade 12, University/College Preparation

Code: BOH4M

This course focuses on the development of leadership skills used in managing a successful business. Students will analyse the role of a leader in business, with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility are also emphasized. **This course is designed for students who are a part of Student Council. All students on the council must go through an application process and all successful candidates will be enrolled in this course**

Prerequisite: Any university, university/college, or college preparation course in business studies or Canadian and world studies.

CANADIAN AND WORLD STUDIES - ECONOMICS, LAW, AND POLITICS



UNDERSTANDING CANADIAN LAW, Grade 11, University/College Preparation

Code: CLU3M

This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of rights and freedoms in Canada, our legal system, and family, contract, employment, tort, and criminal law. Students will use case studies and apply the concepts of legal thinking and the legal inquiry process to develop legal reasoning skills and to formulate and communicate informed interpretations of legal issues, and they will develop the ability to advocate for new laws. *This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information.*

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

CANADIAN AND INTERNATIONAL LAW, Grade 12, University Preparation

Code: CLN4U

This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop their understanding of the principles of Canadian and international law when exploring rights and freedoms within the context of topics such as religion, security, cyberspace, immigration, crimes against humanity, and environmental protection. Students will apply the concepts of legal thinking and the legal inquiry process when investigating these issues in both Canadian and international contexts, and they will develop legal reasoning skills and an understanding of conflict resolution in the area of international law. *This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information.*

Prerequisite: Any “U” or “M” course in Canadian and world studies, English, or social sciences and humanities

ANALYSING CURRENT ECONOMIC ISSUES, Grade 12, University Preparation

Code: CIA4U

This course examines current national and global economic trends and policies from diverse perspectives. Students will explore the impact of choices that individuals and institutions, including governments, make in responding to local, national, and global economic issues such as globalization and global economic inequalities, trade agreements, national debt, taxation, social spending, and consumer debt. Students will apply the concepts of economic thinking and the economic inquiry process, including economic models, to investigate, and develop informed opinions about, current economic issues and to help them make reasoned economic decisions. *This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information.*

Prerequisite: Any “U” or “M” course in Canadian and world studies, English, or social sciences and humanities

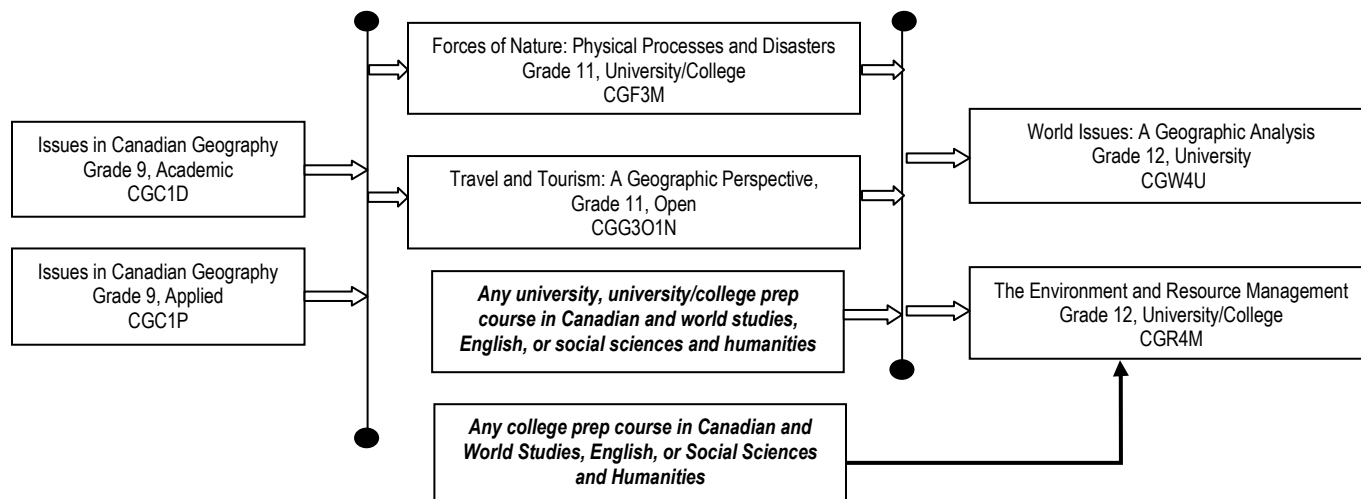
CANADIAN AND WORLD POLITICS, Grade 12, University Preparation

Code: CPW4U

This course explores various perspectives on issues in Canadian and world politics. Students will explore political decision-making and ways in which individuals, stakeholder groups, and various institutions, including different levels of government, multinational corporations, and non-governmental organizations, respond to and work to influence domestic and international developments. Students will apply the concepts of political thinking and the political inquiry process to investigate current political policies, issues, and events, and to develop and communicate informed opinions about them.

Any “U” or “M” course in Canadian and world studies, English, or social sciences and humanities

CANADIAN AND WORLD STUDIES – GEOGRAPHY



Students who earn a minimum of four credits in senior History or Geography courses, with a combined average of 80% over four credits or 78% over five credits will be awarded the John F. Ross CVI Senior Social Studies Certificate. Students who are eligible for this Certificate are required to have a minimum of two of these credits at the grade 12 level.

ISSUES IN CANADIAN GEOGRAPHY, Grade 9, Academic

Code: CGC1D

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

Prerequisite: None

ISSUES IN CANADIAN GEOGRAPHY, Grade 9, Applied

Code: CGC1P

This course focuses on current geographic issues that affect Canadians. Students will draw on their personal and everyday experiences as they explore a range of issues, including food and water supplies, competing land uses, and interactions with the natural environment, developing their awareness that issues that affect their lives are interconnected with issues in other parts of the world. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate choices related to sustainable living in Canada.

Prerequisite: None

FORCES OF NATURE: PHYSICAL PROCESSES AND DISASTERS, Grade 11, University / College Preparation

Code: CGF3M

This course examines Earth's physical patterns and processes and how they create natural disasters and can contribute to human disasters. Students will explore how physical processes related to Earth's water, land, and air, as well as interactions between these systems, can affect the planet and its people. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate Earth's natural processes, to make predictions related to natural disasters, and to create plans to prepare for and/or respond to them. **Students may have opportunity to participate in a field trip to the Niagara Escarpment or Toronto Area, and may also have the opportunity to participate in the senior geography field trip in spring.**

Prerequisite: Geography of Canada, Grade 9, Academic or Applied

TRAVEL AND TOURISM: A GEOGRAPHIC PERSPECTIVE, Grade 11, Open

Code: CGG30

This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends as well as tensions related to tourism, and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities. **Students will have an opportunity to participate in curriculum related field trips that may include, but are not limited to, Niagara Falls or the Toronto Area. Students may also have the opportunity to participate in the senior geography field trip in spring.**

Prerequisite: Geography of Canada, Grade 9, Academic or Applied

WORLD ISSUES: A GEOGRAPHIC ANALYSIS, Grade 12, University Preparation

Code: CGW4U

This course looks at the global challenge of creating a more sustainable and equitable world. Students will explore a range of issues involving environmental, economic, social, and geopolitical interrelationships, and will examine governmental policies related to these issues. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate these complex issues, including their impact on natural and human communities around the world. **Students will participate in team investigations and field trips, including the senior geography field trip in spring and interactive class experiences.**

Prerequisite: Any university or university/college preparation course in Canadian and world studies, English or social sciences and humanities.

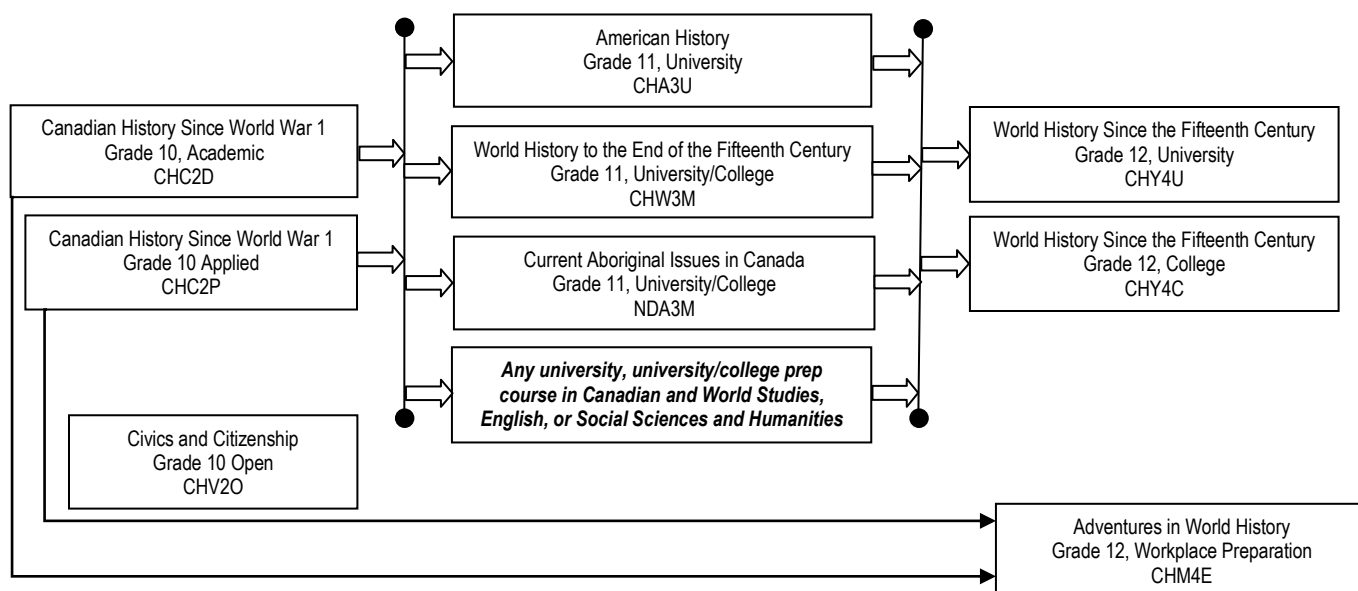
THE ENVIRONMENT AND RESOURCE MANAGEMENT, Grade 12, University/College Preparation

Code: CGR4M

This course explores interactions between the natural and human environment, with a particular focus on the impact of human activity on various ecosystems. Students will explore resource management and sustainability practices, as well as related government policy and international protocols. Applying the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, students will investigate the relationship between people and the natural environment and will propose approaches for developing more sustainable relationships, including environmentally responsible actions that support stewardship. **Students will participate in team investigations and field trips including an opportunity to participate in a senior geography field trip in spring and interactive class experiences.**

Prerequisite: Any university/college or college preparation course in Canadian and world studies, English or social science and humanities.

CANADIAN AND WORLD STUDIES – HISTORY



Students who earn a minimum of four credits in senior History or Geography courses, with a combined average of 80% over four credits or 78% over five credits will be awarded the John F. Ross C.V.I. Senior Social Studies Certificate. Eligibility for this certificate requires that a minimum of two of these credits be earned at the grade 12 level.

CIVICS AND CITIZENSHIP, Grade 10, Open

Code: CHV2O

This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today's world and of personal interest to them. **Note:** This is a ½ credit course.

Prerequisite: None

CANADIAN HISTORY SINCE WORLD WAR I, Grade 10, Academic

Code: CHC2D

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

Prerequisite: None

CANADIAN HISTORY SINCE WORLD WAR I, Grade 10, Applied

Code: CHC2P

This course focuses on the social context of historical developments and events and how they have affected the lives of people in Canada since 1914. Students will explore interactions between various communities in Canada as well as contributions of individuals and groups to Canadian heritage and identity. Students will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating the continuing relevance of historical developments and how they have helped shape communities in present-day Canada.

Prerequisite: None

CURRENT ABORIGINAL ISSUES IN CANADA, Grade 11, U/C Preparation**Code: NDA3M**

This course focuses on existing and emerging issues of national and regional importance of concern to Aboriginal peoples in Canada. Students will analyze diverse perspectives from a variety of sources such as media, academic works and public opinion polls on events and developments related to land, community, governance, identity and culture. Using political thinking concepts and the political inquiry process students will explore their own and others' ideas, investigate an issue to determine what needs to change, why and appropriate problem-solving strategies.

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

AMERICAN HISTORY, Grade 11, University Preparation**Code: CHA3U**

This course traces the social, economic, and political development of the United States from colonial times to the present. Students will explore the historical context of key developments that shaped the United States, its identity and culture, and its role in the global community. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating forces in American history.

Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied

WORLD HISTORY TO THE END OF THE 15th CENTURY, Grade 11, U/C Prep**Code: CHW3M**

This course explores the history of various societies around the world, from earliest times to around 1500 CE. Students will examine life in and the legacy of various ancient and pre-modern societies throughout the world, including those in, Africa, Asia, Europe, and the Americas. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.

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

WORLD HISTORY SINCE THE FIFTEENTH CENTURY, Grade 12, University Prep**Code: CHY4U**

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

Prerequisite: Any "U" or "M" courses in Canadian and world studies, English, or social science and humanities

WORLD HISTORY SINCE THE FIFTEENTH CENTURY, Grade 12, College Prep**Code: CHY4C**

This course explores key developments and events in world history since approximately 1450, with a focus on interactions within and between various regions. Students will examine social, economic, and political developments and how they have affected different peoples. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key turning points in world history and historical forces that have shaped our world.

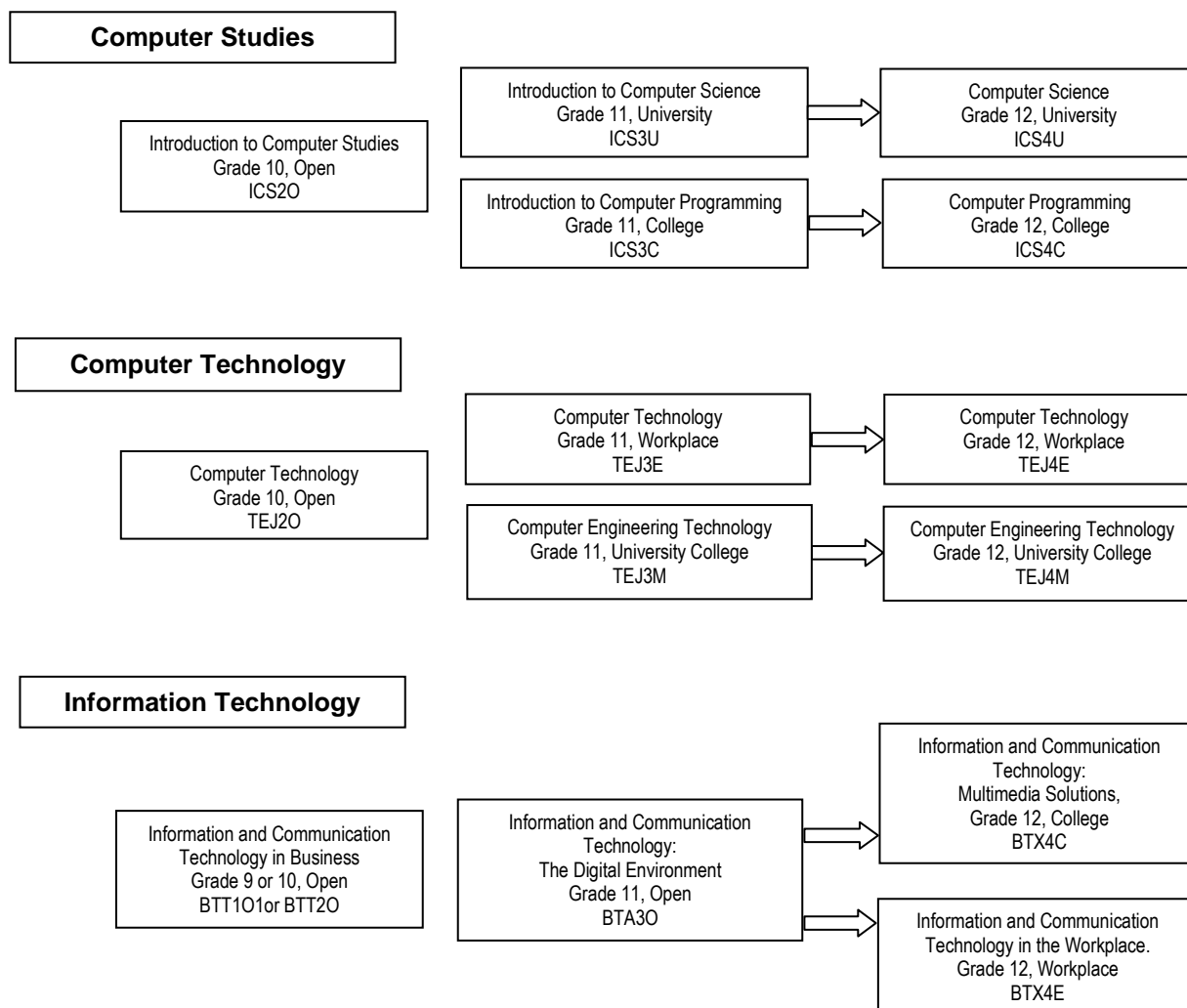
Prerequisite: Any "U" or "M" courses in Canadian and world studies, English, or social science and humanities

ADVENTURES IN WORLD HISTORY, Grade 12, Workplace Preparation**Code: CHM4E**

This course examines significant developments and events in world history from earliest times to the present. Students will explore social, economic, and political forces in different times and places, and how technology, art, and religion have helped shape people's lives and identities. Students will apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating a variety of human experiences in world history.

Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied or LDCC history.

COMPUTER STUDIES



INFORMATION AND COMMUNICATION TECHNOLOGY IN BUSINESS, Grade 9/10, Open

Code: BTT10/20

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. **BTT can only be taken once: either as a grade 9 or grade 10 course - BTT10 or BTT20**

Prerequisite: None

INTRODUCTION TO COMPUTER STUDIES, Grade 10, Open

Code: ICS20

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. **Note: This course can be taken in either grade 9 or 10 for 1 credit.**

Prerequisite: None

COMPUTER TECHNOLOGY, Grade 10, Open**Code: TEJ201**

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, and will learn about secondary and postsecondary pathways to careers in computer technology.

Prerequisite: None**INTRODUCTION TO COMPUTER SCIENCE, Grade 11, University Preparation****Code: ICS3U**

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

Prerequisite: None**INTRODUCTION TO COMPUTER PROGRAMMING, Grade 11, College Preparation****Code: ICS3C**

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

Prerequisite: None**COMPUTER ENGINEERING TECHNOLOGY, Grade 11, University/College****Code: TEJ3M1**

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 related environmental and societal issues, and will learn about college and university programs leading to careers in computer technology.

Prerequisite: None**COMPUTER TECHNOLOGY, Grade 11, Workplace Preparation****Code: TEJ3E1**

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.

Prerequisite: None**INFORMATION AND COMMUNICATION TECHNOLOGY: THE DIGITAL ENVIRONMENT, Grade 11, Open****Code: BTA3O**

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.

Prerequisite: None.

COMPUTER SCIENCE, Grade 12, University Preparation**Code: ICS4U**

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

Prerequisite: Introduction to Computer Science, Grade 11, ICS3U, University Preparation

COMPUTER PROGRAMMING, Grade 12, College Preparation**Code: ICS4C**

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: Introduction to Computer Programming, Grade 11, ICS3C, College Preparation

COMPUTER ENGINEERING TECHNOLOGY, Grade 12, University/College**Code: TEJ4M1**

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 related environmental and societal issues, and will explore postsecondary pathways leading to careers in computer technology.

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

COMPUTER TECHNOLOGY, Grade 12, Workplace Preparation**Code: TEJ4E1**

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

INFORMATION AND COMMUNICATION TECHNOLOGY: MULTIMEDIA SOLUTIONS, Grade 12, College Preparation**Code: BTX4C**

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

INFORMATION AND COMMUNICATION TECHNOLOGY IN THE WORKPLACE, Grade 12, Workplace Preparation**Code: BTX4E**

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 electronic business and e-commerce environments and workplace ethics. This course will prepare students for a successful transition from secondary school to the workplace.

Prerequisite: Information and Communication Technology: the Digital Environment, Grade 11, Open

CO-OPERATIVE EDUCATION

Co-operative Education is a program that allows senior students to extend classroom learning into supervised placements in the community, explore potential careers, and gain valuable work experience. **Students may earn one to four credits in co-op during a semester but typically two credits are earned. Co-op credits are linked to specific in-school subjects.**

How Does Co-op Work?

- A half-day community work placement is combined with a school-based classroom component.
- A 4-week classroom component helps students prepare for work through health and safety training, self-assessment exercises, and lessons on such topics as resume and interview skills, confidentiality, and employer expectations.
- Students are not usually paid while on the job during regular school time instead they earn credits for their work term.

What should I consider before choosing Co-op?

- You should be 16 years of age and have 16 credits prior to taking co-op.
- You will be responsible for your own transportation to and from your placement.
- Consider more than one option for your job placement as specific placements cannot be guaranteed.
- For certain placements, a full-day co-op program is preferable to a half-day program.
- You may be required to undergo a security check.
- **The work component of Grade 12 U or M level co-op credits are not considered as part of the six U and M level courses used in admission averages for university acceptances.**
- **You may wish to consider extending your high school career to include Co-op.**

How Do I Choose Co-op during course selections?

You choose **FTECO2** for regular coop or **FTECO2T** for technology based co-op. You will then be contacted for an interview in early spring.

OYAP- Ontario Youth Apprenticeship Program

The Ontario Youth Apprenticeship Program (OYAP) is a specialized Co-op Program for those students interested in apprenticeship training. This program allows senior students to complete co-op credits toward their Ontario Secondary School Diploma (OSSD) and earn hours towards an apprenticeship. Students who are serious about obtaining an apprenticeship must begin by applying for the co-operative education course related to their chosen occupation. **Please see the Guidance Department Head for counselling about OYAP options. Alternatively, consult with Tech Department Head regarding OYAP for technology related programs.**

CO-OP COURSE DESCRIPTIONS

DESIGNING YOUR FUTURE CO-OP, GRADE 11

Code: FTECO2 Choose this option if you want to take a Co-op that **IS NOT** technology based.

Code: FTECO2T Choose this option if you want to take a Co-op that **IS** technology based.

The High Performance Athlete Co-op is a specialized cooperative education program for students who are competing at the provincial, national, and international level. This program is designed for students actively pursuing athletic training and who without it would fall behind in credits. **Students must complete an application for this co-op. Please visit the co-op office for details.**

DUAL CREDIT

These programs provide senior students with an opportunity to earn both high school and college credits while still in high school. They are combined with co-op credits during a one semester term.

Note: The courses below are **possible course offerings** and are pending final approval. Registration is through an application process only. Please visit the Guidance Department to inquire.

Potential Programs Available at Conestoga College		
College Pathway (Location: Doon Campus)	Apprenticeship Pathway	
	Apprenticeship Preparation	OYAP Level 1 Apprentice*
Careers in Health Care <ul style="list-style-type: none"> Personal Support Worker (PSW): Students will take the two PSW courses or Anatomy and Physiology plus a course from another program area. 	Exploring the Trades: Construction #1 (Waterloo) <ul style="list-style-type: none"> Construction Trades Math Electrical Fundamentals 	Auto Service Technician (Guelph)
Early Childhood Education (ECE) <ul style="list-style-type: none"> Introduction to ECE Child Development, The Early Years 	Exploring the Trades: Construction #2 (Waterloo) <ul style="list-style-type: none"> Construction Trades Math HRAC/Sheet Metal Fundamentals 	Brick and Stone Mason (Waterloo)
Community Leadership: Students will take two of the following: <ul style="list-style-type: none"> Introduction to Helping: With First Aid/CPR Get Fit 1 Canadian Criminal Justice System 	Exploring the Trades: Culinary (Waterloo) <ul style="list-style-type: none"> Baking Theory & Techniques Kitchen Management, Communication, Sanitation and Nutrition 	Cook (Waterloo)
Design Fundamentals <ul style="list-style-type: none"> 2 Basic Design courses 	Exploring the Trades: Food Production (Guelph) <ul style="list-style-type: none"> Basic Kitchen Production Kitchen Production 	General Machinist (Doon) <ul style="list-style-type: none"> Common core
	Exploring the Trades - Mechanical (Guelph) <ul style="list-style-type: none"> Mechanical Trades Math Welding/Motive Power Safety/Ozone Depletion 	Truck and Coach Technician (Guelph) Common core

*** THE OYAP LEVEL 1 APPRENTICE REQUIRES STUDENT TO BE SIGNED AS AN APPRENTICE BEFORE THEY BEGIN THEIR DUAL CREDIT. IT IS NOT RECOMMENDED TO STUDENTS IF THERE IS NO APPRENTICESHIP IN PLACE.**

Potential e-Learning Offered by the UGDSB

Students must see a guidance counsellor to select online courses. As well, other courses are available through our partner school boards.

Full Year Continuous Entry Courses

Course Title	Grade and Academic Level	Course Code
Information and Communication Technology: The Digital Environment,	Grade 11, Open	BTA3O
Accounting Essential	Grade 11, Workplace	BAI3E
Communication in the World of Business and Technology	Grade 12, Open	EBT4O
English	Grade 11, College	ENG3C
English	Grade 12, College	ENG4C
Ontario Literacy Course	Grade 12, Open	OLC4O
Mathematics for Work and Everyday Life	Grade 11, Workplace	MEL3E
College and Apprenticeships Mathematics	Grade 12, college	MAP4C

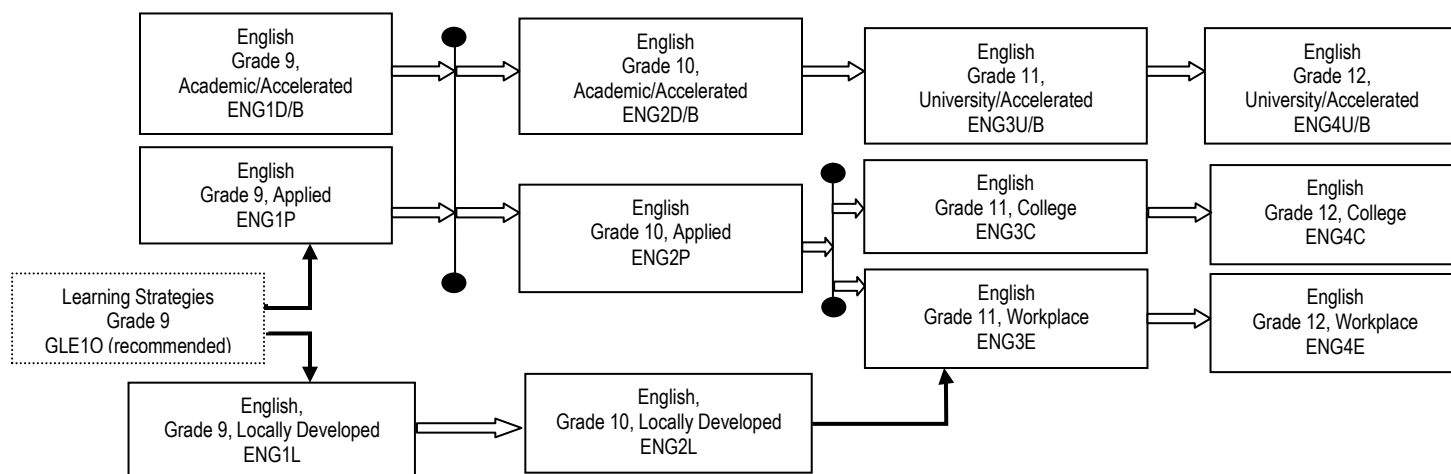
Semester Long Course

Course Title	Grade	Academic Level	Course Code	Semester Offered
Principles of Financial Accounting	12	University/College	BAT4M	1
World Issues: A Geographic Analysis	12	University	CGW4U	1
Canadian and International Law	12	University	CLN4U	1
English	11	University	ENG3U	1 and 2
English	12	University	ENG4U	1 and 2
Studies in Literature	12	University	ETS4U	1
Designing Your Future	11	Open	GWL3O	1
Families in Canada	12	University	HHS4U	1
Challenge and Change in Society	12	University	HSB4U	1 and 2
Introduction to Computer Science	11	University	ICS3U	1
Advanced Functions	12	University	MHF4U	
Contemporary Aboriginal Voices	11	Workplace	NBV3E	1 and 2
Physics	12	University	SPH4U	
International Business Fundamentals	12	University/College	BBB4M	2
Civics and Citizenship	10	Open (1/2 credit)	CHV2O	2
The Writer's Craft	12	University	EWC4U	2
Career Studies,	10	Open(1/2 credit)	GLC2O	2
Philosophy: Questions and Theories	12	University	HZT4U	2
Computer Science	12	University	ICS4U	2
Mathematics for College Technology	12	College	MCT4C	2
Calculus and Vectors	12	University	MCV4U	2
Mathematics of Data Management	12	University	MDM4U	2
Health for Life	11	Open	PPZ3O	2
Earth and Space Science	12	University	SES4U	2
Physics	12	College	SPH4C	2

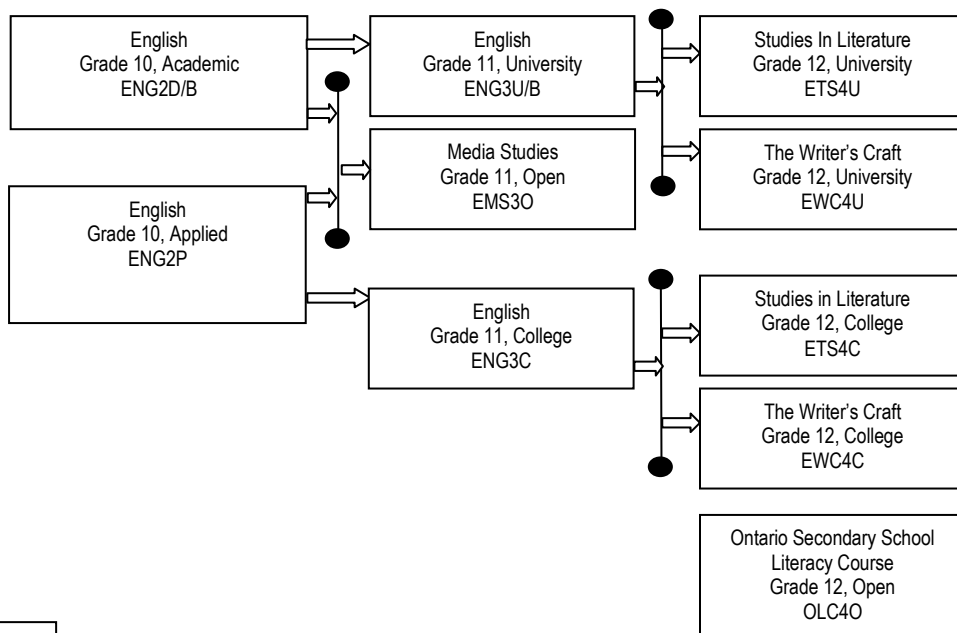
ENGLISH

Special Note: Accelerated Program

The English Department has designated one section of each core academic course to be an accelerated course in the AP program. To be part of this limited enrolment program, students must demonstrate an interest and proficiency in their English studies, and must complete an application form for each course. Students enrolled in the ENG4UB course have the option of writing the AP exam for an additional fee. Courses offered in the accelerated program: ENG1DB, ENG2DB, ENG3UB, ENG4UB



Pathways to Optional Courses



Interdisciplinary Options - Yearbook

Note: Students may take a maximum of three (3) interdisciplinary studies courses, one each of IDC3O, IDC4O and IDC4U.

Any University or University/College preparation course in Canadian and World Studies, English, or Social Sciences and Humanities

Interdisciplinary Studies – Yearbook
Grade 12, University Preparation
IDC4U2

Interdisciplinary Studies- Yearbook
Grade 11, Open
IDC3O1

Interdisciplinary Studies – Yearbook
Grade 12, Open
IDC4O1

ENGLISH, Grade 9, Essential Program**Code: ENG1L**

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in future English courses. 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.

Prerequisite: None**ENGLISH, Grade 9, Academic****Code: ENG1D**

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

Prerequisite: None**ENGLISH, Grade 9, Accelerated Academic****Code: ENG1DB**

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; however, **as an accelerated course students are introduced to a depth of thought and writing forms expected on the Advanced Placement (AP) exam.**

Prerequisite: None. Recommendation from Grade 8 teacher is required.**ENGLISH, Grade 9, Applied****Code: ENG1P**

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 compulsory Grade 10 applied English course, which leads to college, or workplace preparation courses in Grades 11 and 12. **Students may take GLS10 in the first semester before taking this course.**

Prerequisite: None**ENGLISH, Grade 10, Essential Program****Code: ENG2L**

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 into 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 on 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: English, Grade 9, Academic, Applied or Essential

ENGLISH, Grade 10, Academic**Code: ENG2D**

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

Prerequisite: English, Grade 9, Academic or Applied

ENGLISH, Grade 10, Accelerated Academic**Code: ENG2DB**

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; **however, as an accelerated course students will develop strategies and content expected on the Advanced Placement (AP) exam.**

Prerequisite: English 9, Acad. with high achievement. An application and teacher recommendation is required.

ENGLISH, Grade 10, Applied**Code: ENG2P**

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

ENGLISH, Grade 11, University Preparation**Code: ENG3U**

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

Prerequisite: English, Grade 10, Academic

ENGLISH, Grade 11, Accelerated University Preparation**Code: ENG3UB**

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; **however, as an accelerated course students will consolidate an understanding of the language and questions on the Advanced Placement (AP) exam.**

Prerequisite: English 10, Acad. with high achievement. An application and teacher recommendation is required.

ENGLISH, Grade 11, College Preparation**Code: ENG3C**

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

ENGLISH, Grade 11, Workplace Preparation**Code: ENG3E**

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

MEDIA STUDIES, Grade 11, Open**Code: EMS3O**

This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through 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

ENGLISH, Grade 12, University Preparation**Code: ENG4U**

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

Prerequisite: English, Grade 11, University Preparation

ENGLISH, Grade 12, Accelerated University Preparation**Code: ENG4UB**

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. **Advance Placement (AP) Literature and Language Examinations are a focus.**

Prerequisite: English 11, Uni. with high achievement. An application and teacher recommendation is required.

ENGLISH, Grade 12, College Preparation**Code: ENG4C**

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

ENGLISH, Grade 12, Workplace preparation**Code: ENG4E**

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

STUDIES IN LITERATURE, Grade 12, University Preparation**Code: ETS4U**

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

Prerequisite: English, Grade 11, University Preparation

STUDIES IN LITERATURE, Grade 12, College Preparation**Code: ETS4C**

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

THE WRITER'S CRAFT, Grade 12, University Preparation**Code: EWC4U**

This course emphasizes knowledge and skills related to the craft of writing. Students will analyze 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

THE WRITER'S CRAFT, Grade 12, College Preparation**Code: EWC4C**

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

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. **(Offered in the Fall only)**

Eligibility Requirements: Students who have been eligible to write the OSSLT at least twice and who have been unsuccessful at least once are eligible to take this course (Students who have already met the literacy requirement for graduation may be eligible to take the course under special circumstances, at the discretion of the principal).

Interdisciplinary Studies in English

Students may take a maximum of three (3) interdisciplinary studies courses – one each of Interdisciplinary Studies, Grade 11, Open; Interdisciplinary Studies, Grade 12, University Preparation; and Interdisciplinary Studies, Grade 12, Open.

INTERDISCIPLINARY STUDIES: Yearbook, Grade 11, Open

Code: IDC301

•This Yearbook course will help students combine the skills required for and knowledge of different subjects and disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject or discipline. Through individual and collaborative inquiry and research, students will analyse the connections among diverse subjects and 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 new disciplines. **Note: A course enhancement fee of 35\$ is requested for the purchase of a yearbook.**

Prerequisites: None. An interview may be required.

INTERDISCIPLINARY STUDIES: Yearbook, Grade 12, University or Open

Code: IDC4U2

The Yearbook course will help students develop and consolidate the skills required for and knowledge of different subjects and disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject or discipline. Students will apply the principles and processes of inquiry and research to effectively use a range of print, electronic, and mass media resources; to analyse historical innovations and exemplary research; and to investigate real-life situations and career opportunities in interdisciplinary endeavours. They will also assess their own cognitive and affective strategies, apply general skills in both familiar and new contexts, create innovative products, and communicate new knowledge. **Note: A course enhancement fee of 35\$ is requested for the purchase of a yearbook.**

Prerequisites: IDC4U2 requires ENG3U1. An interview may be required.

INTERDISCIPLINARY STUDIES: Yearbook, Grade 12, University or Open

Code: IDC4O1

The Yearbook course will help students develop and consolidate the skills required for and knowledge of different subjects and disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject or discipline. Students will apply the principles and processes of inquiry and research to effectively use a range of print, electronic, and mass media resources; to analyse historical innovations and exemplary research; and to investigate real-life situations and career opportunities in interdisciplinary endeavours. They will also assess their own cognitive and affective strategies, apply general skills in both familiar and new contexts, create innovative products, and communicate new knowledge. **Note: A course enhancement fee of 35\$ is requested for the purchase of a yearbook.**

Prerequisites: None. An interview may be required.

ENGLISH AS A SECOND LANGUAGE (ESL)

English as a Second Language credit courses are offered in our day school program for students who have recently arrived in Canada from countries where English is not the main language. English language learners will be assessed and placed in appropriate ESL or ELD courses. There are five ESL courses and five ELD courses designated according to levels of proficiency in English and literacy development, not by grade. All ESL and ELD courses are open courses. Students may substitute up to three ESL or ELD courses for compulsory English credit requirements. The remaining English credit shall be chosen from one of the compulsory English courses. Additional ESL or ELD credits may be counted as optional credits for diploma purposes.

English as a Second Language (ESL) Courses

These courses are designed for English language learners who have had opportunities to develop language and literacy skills in their own language appropriate to their age or grade level. Most English language learners are in this group. These learners may be entering John F. Ross from elementary school alongside their English-speaking peers, or they may be entering John F. Ross having recently arrived from other countries.

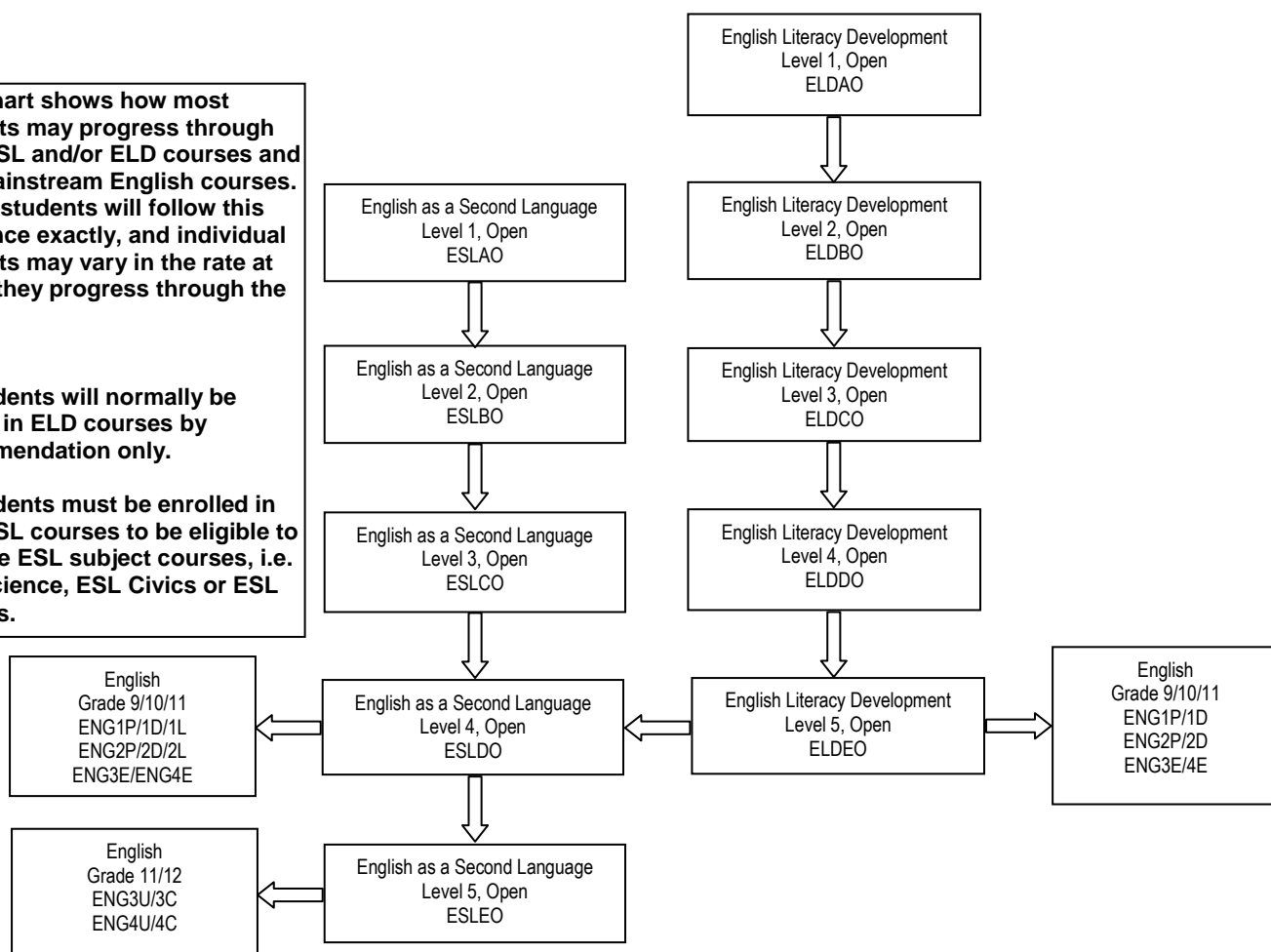
English Literacy Development (ELD) Courses

These courses are designed for English language learners with limited prior schooling. These students are from areas of the world where educational opportunities have not been consistently available. ELD courses provide an accelerated program of literacy development for these students who have significant gaps in their education and who have not had opportunities to develop age-appropriate literacy skills in any language.

This chart shows how most students may progress through their ESL and/or ELD courses and into mainstream English courses. Not all students will follow this sequence exactly, and individual students may vary in the rate at which they progress through the levels.

Note:

- 1. Students will normally be placed in ELD courses by recommendation only.**
- 2. Students must be enrolled in core ESL courses to be eligible to take the ESL subject courses, i.e. ESL Science, ESL Civics or ESL Careers.**



ENGLISH AS A SECOND LANGUAGE, Level 1, Open**CODE: ESLAO**

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

Prerequisite: None**ENGLISH AS A SECOND LANGUAGE, Level 2, Open****Code: ESLBO**

This course extends students' listening, speaking, reading, and writing skills in English for everyday and academic purposes. Students will participate in conversations in structured situations on a variety of familiar and new topics; read a variety of texts designed or adapted for English language learners; expand their knowledge of English grammatical structures and sentence patterns; and link English sentences to compose paragraphs. The course also supports students' continuing adaptation to the Ontario school system by expanding their knowledge of diversity in their new province and country.

Prerequisite: English as a Second Language, Level 1 or equivalent**ENGLISH AS A SECOND LANGUAGE, Level 3, Open****Code: ESLCO**

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**ENGLISH AS A SECOND LANGUAGE, Level 4, Open****Code: ESLDO**

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

Prerequisite: English as a Second Language, Level 3 or equivalent**ENGLISH AS A SECOND LANGUAGE, Level 5, Open****Code: ESLEO**

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

ENGLISH LITERACY DEVELOPMENT, Level 1, Open**Code: ELDAO**

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.

Prerequisite: None**ENGLISH LITERACY DEVELOPMENT, Level 2, Open****Code: ELDBO**

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 become familiar with and use school and community resources and build their cultural knowledge of Canada.

Prerequisite: English Literacy Development, Level 1, or equivalent***ENGLISH LITERACY DEVELOPMENT, Level 3, Open****Code: ELDCO**

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 make brief oral presentations; 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; and engage in a variety of cooperative learning activities. The course will also enable students to strengthen and extend their study skills and personal-management strategies and to broaden their understanding of Canadian diversity and citizenship.

Prerequisite: English Literacy Development, Level 2, or equivalent**ENGLISH LITERACY DEVELOPMENT, Level 4, Open****Code: ELDDO**

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 communicate with increased accuracy and fluency for a variety of academic and everyday purposes; perform a variety of guided reading, writing, and viewing tasks; and use media and community resources to complete guided-research projects. 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**ENGLISH LITERACY DEVELOPMENT, Level 5, Open****Code: ELDEO**

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 communicate orally and in writing on a variety of topics; perform a variety of independent reading and writing tasks; interpret and create media texts; and use a range of media and community resources. 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

ADDITIONAL CREDITS FOR STUDENTS ENROLLED IN ESL/ELD CLASSES

MATHEMATICS - LOCALLY DEVELOPED, Grade 9**Code: MAT1LE**

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. Students have the 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.

Prerequisite: None. *This course will be modified for English language learners.*

ISSUES IN CANADIAN GEOGRAPHY, Grade 9, Applied**Code: CGC1PE**

This course focuses on current geographic issues that affect Canadians. Students will draw on their personal and everyday experiences as they explore a range of issues, including food and water supplies, competing land uses, and interactions with the natural environment, developing their awareness that issues that affect their lives are interconnected with issues in other parts of the world. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate choices related to sustainable living in Canada.

Prerequisite: None. *This course will be modified for ESL/ELD Levels 1 and 2 students.*

FOUNDATIONS OF MATHEMATICS, Grade 9, Applied**Code: MFM1PE**

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.

Prerequisite: None. *This course will be modified for ESL/ELD Levels 1 and 2 students.*

EXPLORING FAMILY STUDIES, Grade 9, Open**Code: HIF1OE**

This course explores, within the context of families, some of the fundamental challenges people face: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible members of society. Students will explore adolescent development and will have opportunities to develop interpersonal, decision-making, and practical skills related to daily life. They will learn about the diverse ways in which families function in Canada and will use research skills as they explore topics related to individual and family needs and resources.

Prerequisite: None. *This course will be modified for ESL/ELD Levels 1 and 2 students.*

INTRODUCTION TO INFORMATION TECHNOLOGY IN BUSINESS, Grade 9, Open**Code: BTT1OE**

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.

Prerequisite: None. *This course will be modified for ESL/ELD Level 1 and 2 students.*

LEARNING STRATEGIES: Skills for success in secondary school, Grade 9, Open**Code: GLS1OE**

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

Prerequisite: None. *This course will be modified for ESL/ELD Levels 1 and 2 students.*

SCIENCE, Grade 9, Applied**Code: SNC1PE**

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems; the structure and properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.

Prerequisite: None. *This course will be modified for ESL/ELD Levels 2 and 3 students.*

DRAMATIC ARTS, Grade 9, Open**Code: ADA1OE**

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.

Prerequisite: None. *This course will be modified for ESL/ELD Levels 2 and 3 students.*

CANADIAN HISTORY SINCE WORLD WAR I, Grade 10, Applied**Code: CHC2PE**

This course focuses on the social context of historical developments and events and how they have affected the lives of people in Canada since 1914. Students will explore interactions between various communities in Canada as well as contributions of individuals and groups to Canadian heritage and identity. Students will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating the continuing relevance of historical developments and how they have helped shape communities in present-day Canada.

Prerequisite: None. *This course will be modified for ESL/ELD Levels 2 and 3 students.*

CAREER STUDIES, Grade 10, Open**Code: GLC2OE**

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. **Note:** This is a ½ credit course.

Prerequisite: None. *This course will be modified for ESL/ELD Level 2 and 3 students.*

CIVICS AND CITIZENSHIP, Grade 10, Open**Code: CHV2OE**

This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today's world and of personal interest to them **Note:** This is a ½ credit course

Prerequisite: None. *This course will be modified for ESL/ELD Levels 2 and 3 students.*

GUIDANCE AND CAREER EDUCATION

Learning Strategies
Grade 9, Open
GLE10/GLS10

Career Studies
Grade 10, Open
GLC20

LEARNING STRATEGIES: SKILLS FOR SUCCESS IN SECONDARY SCHOOL, Grade 9, Open

Code: GLE(S)10

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: *This course is selected with the approval of the elementary school principal.*

CAREER STUDIES, Grade 10, Open

Code: GLC20

This course teaches students how to develop and achieve personal goals in education and work and contribute to their communities. Student learning will include assessing their own knowledge, skills, and characteristics and investigating economic trends, workplace organization, work opportunities, and ways to search for work. The course explores post secondary learning options, prepares students for community based learning, and helps them build the capabilities needed for managing work and life transitions. Students will design action plans for pursuing their goals. **Note:** This is a ½ credit course.

Prerequisite: None

HEALTH AND PHYSICAL EDUCATION

Healthy Active Living

Healthy Active Living
Grade 9, Open
PPL1OX
PPL1OY

Healthy Active Living
Grade 10, Open
PPL2OX
PPL2OY

Healthy Active Living
Grade 11, Open
PPL3OX
PPL3OY

Healthy Active Living
Grade 12, Open
PPL4OX
PPL4OY

Please Note: X = Female Y = Male

Personal Fitness

Fitness for Collision Sports
Grade 10, Open
PAF2OX1 (Male Focus)

Personal and Fitness Activities
Grade 11, Open
PAF3O (Co-ed)

Personal and Fitness Activities
Grade 12, Open
PAF4O (Co-ed)

Personal and Fitness Activities
Grade 11, Open
PAF3OX (Female focus)

Personal and Fitness Activities
Grade 12, Open
PAF4OX (Female focus)

Outdoor Education

Outdoor Activities
Grade 11, Open
PAD3O

Other Senior Courses

Any Grade 11 university or university/college
preparation course in science
or
any Grade 11 or 12 open course in health and
physical education

Exercise Science
Grade 12, University
PSE4U

A Grade 11 or 12 open course in health and
physical education

Recreation and Fitness
Leadership
Grade 12, College
PLF4C1

HEALTHY ACTIVE LIVING EDUCATION, Grade 9, Open

Code: PPL1OX/Y (Female/Male)

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/abuse of alcohol, tobacco, and other drugs, and will participate in activities designed to develop goal-setting, communication, and social skills.

Prerequisite: None

HEALTHY ACTIVE LIVING EDUCATION, Grade 10, Open

Code: PPL2OX/Y (Female/Male)

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. There will be a \$30.00 fee for the climbing portion of this course.

Prerequisite: None

FITNESS FOR COLLISION SPORTS, Grade 10, Open**Code: PAF2OY**

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. **At present, this course is designed as a boy's only fitness class focusing on collision sports. Physical activities will concentrate on training and drills that simulate the demands of collision sports; while the health component will emphasize the prevention and treatment of serious injury like concussion.**

Prerequisite: None**HEALTHY ACTIVE LIVING EDUCATION, Grade 11, Open****Code: PPL3OX/Y (Female/Male)**

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, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety. **There will be a fee for hockey and swimming options.**

Prerequisite: None**OUTDOOR ACTIVITIES: OUTDOOR EDUCATION, Grade 11, Open****Code: PAD3O (Coed)**

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. Students will also study components of healthy relationships, reproductive health, mental health and personal safety. This co-educational course features activities that promote healthy active living for life, such as: aquatic games, canoeing, camping, hiking, backpacking, skiing, snowshoeing, skating, orienteering, geocaching, cycling, indoor rock climbing, paddle making, photography, wilderness first aid, leadership and initiative tasks. **A compulsory part of the course is a four-day canoe trip and the passing of a swim test. Enrichment Experience Fee: \$250**

Prerequisite: None.**PERSONAL AND FITNESS ACTIVITIES: LIVE FIT, Grade 11, Open****Code: PAF3OX**

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, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety. **This course will be designed as a girl's only fitness course with emphasis on individual activity in a fun group setting.** Students will be participating in step classes, yoga, pilates, boot camps, using resistance bands, swimming, skating, and participating in running goals. A course fee may apply.

Prerequisite: None. Students who have taken PAF3O co-ed are not eligible to take this course.**PERSONAL AND FITNESS ACTIVITIES, Grade 11, Open****Code: PAF3O (Co-ed)**

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, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety. **This course will focus primarily on activities outside such as running and biking or in the fitness centre. Access to a bicycle and helmet may be required.**

Prerequisite: None

HEALTHY ACTIVE LIVING EDUCATION, Grade 12, Open**Code: PPL4OX/Y (Female/Male)**

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. **There will be a \$30.00 fee for the climbing portion of this course and additional fees for swimming and hockey options of this course.**

Prerequisite: None**PERSONAL AND FITNESS ACTIVITIES: LIVE FIT, Grade 12, Open****Code: PAF4OX**

This course focuses on the development of a personalized approach to healthy active living through participation in a variety of physical activities that have the potential to engage students' interest throughout their lives. Students will develop and implement a personal physical fitness plan. In addition they will be given the opportunities to refine their decision making, conflict resolution and interpersonal skills with a view to enhancing their mental health and their relationships with others. **This course is designed primarily as a girls only fitness course with emphasis on individual activity in a fun group setting** (e.g. tabatas, resistance band training, weight training, swimming, yoga, pilates, body combat, skating, running, etc.). The goal is to encourage lifelong fitness beyond the classroom and after graduation. **A course fee may apply.**

Prerequisite: None. Students who have taken PAF4O co-ed are not eligible to take this course.**PERSONAL AND FITNESS ACTIVITIES, Grade 12, Open****Code: PAF4O (Co-ed)**

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. This course will focus primarily on activities outside such as running and biking or in the fitness centre. Access to a bicycle and helmet is required

Prerequisite: None**RECREATION AND FITNESS LEADERSHIP, Grade 12, College Preparation****Code: PLF4C1 (Co-ed)**

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 recreational, leisure, and fitness leadership. Acceptance into this course is based on an interview. Candidates will be running Athletic Council activities and intramurals. **This is a full year course. Students will receive ½ credit first semester and ½ credit second semester.**

Prerequisite: Any grade 11 or 12 open course in health and physical education**EXERCISE SCIENCE, Grade 12, University Preparation****Code: PSE4U (Co-ed)**

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 11/12 open course in health and physical education

INTERDISCIPLINARY EDUCATION PROGRAMS

NOTE: Students may take a maximum of three (3) interdisciplinary studies courses – one each of Interdisciplinary Studies, Grade 11, Open; Interdisciplinary Studies, Grade 12, University Preparation; and Interdisciplinary Studies, Grade 12, Open.

PROGRAMS AVAILABLE AT ROSS

Grade 11 DaVinci Science and Art Environmental Leadership Program

Highlights: The DaVinci Program takes place off campus at the J.C. Taylor Nature Centre at the University of Guelph. Surrounded by the natural beauty and hiking trails of the University Arboretum and Nature Centre, students will explore nature and environmental issues through literature, visual arts, science and geography. Students will participate in a five day wilderness trip which will include biological and artistic components. Throughout the course, students will develop communication, critical and creative thinking skills necessary for success in academic and daily life. There will be opportunities to visit the university to participate in some labs, studios, and interact with university students and staff. Finally, students will consolidate what they have learned and develop their leadership and interpersonal skills by teaching an environmental and art-based program to elementary students. **You cannot choose DaVinci courses on-line; you must apply through the Guidance office.**

Cost: There will be a course participation fee of approximately \$400. However, no student will be denied due to financial reasons. Students will be expected to find their own transportation to and from the site.

Courses (students receive 4 credits):

AEA30: Visual Arts, University/College Preparation

SBI3U: Biology, University Preparation

ENG3U: English, University Preparation

HSP3U: Introduction to Anthropology, Psychology and Sociology, University/College Preparation

Prerequisites: All normal prerequisites must be met for the courses listed above.

Grade 11&12 Guswhenta (Two Road Wampum)

Code: FTEGUSW

This new program is geared to those students who are interested in social justice. First Nations, Métis, Inuit and global indigenous voices and issues will be studied. Historical and contemporary equity and social justice issues within Canada and globally will be explored in this integrated and experiential four-course package. The program will culminate in the design and implementation of a social action initiative. Students will be enriched by contact with local Elders, Aboriginal artists, non-profit entrepreneurs, and social activists. They will participate in workshops and field trips to local Aboriginal communities and events as well as an extended field trip which will immerse them in Aboriginal culture or humanitarian endeavours. If granted Ministry approval, this program will lead to a Not-for-Profit Specialist High Skills Major. This program **can be selected using myBlueprint**

Course Enhancement Fee: The course participation fee will be approximately \$650, which would include an Aboriginal Exchange trip.

Courses (students receive 4 credits, all count towards Environment SHSM):

NBE3U or C: English: Contemporary Aboriginal Voices
(This credit meets the Grade 11 compulsory English credit requirement.)

NDW 4M: Issues of Indigenous Peoples in a Global Context

NDA 3M: Current Aboriginal Issues in Canada,

HSE 4M: Equity and Social Justice: From Theory to Practice,

Prerequisites: ENG2D or ENG2P

Grade 10 Community Environmental Leadership Program (CELP)

Centennial CVI

Highlights: A five night wilderness trip, teaching an Earth keepers program to grade fives, reading literature related to environmental themes, discovering the community by bicycle and exploring and showing, by example, environmentally friendly lifestyles. Students are bussed from their home school daily to Eden Mills for this program. **You cannot choose CELP courses on-line; pick up an information and application form from Guidance or download one from the Centennial website www.centennialcvi.com.**

Cost: There will be a course participation fee in the \$600 range. However, no student will be denied due to financial reasons.

Courses (students receive 4 credits):

ENG2D: English Academic or **ENG2P:** English Applied
CHV2O Civics and **GLC2O** Career Studies

IDP3O: Interdisciplinary Studies
PAD2O: Outdoor Activities (Phys. Ed.)

Prerequisites: Students have completed Grade 9 English

Grade 11 Made in Guelph

GCVI

Urban Arts is an innovative program designed for Grade 11 students with a keen interest in the Arts. The courses focus on the creative exploration of the arts and all levels of ability are welcome in this collaborative environment. Students will explore Music, Art, Drama and English in an integrated, non-traditional environment at the Guelph Youth Music Centre. In this downtown setting, student “artrepreneurs” will experience real world opportunities through local partnerships, develop their craft, and become confident, creative thinkers. . **You cannot choose this program on-line; pick up an information and application form from Guidance or visit the GCVI website www.urbanarts.ca** The application package will include a student Information sheet, one page personal introduction, and two teacher references

Cost: There will be a course participation fee in the \$600 range. However, no student will be denied due to financial reasons.

Courses (students receive 4 credits):

ENG3U: English University
AWT3M: Non Traditional Media

AMC3M: Music for Creating
ADD3M: Drama Production

Prerequisites: Students must have completed Grade 10 Academic English

Grade 12 Headwaters

Centennial CVI

Highlights: A seven night winter snowshoe trip and a four night bioregional canoe trip, sewing snowshoe moccasins and carving canoe paddles, planting and harvesting a food garden, interviewing community citizens through a cultural journalism project with the end goal of publishing a small book, uncovering our human impacts on the earth and learning about eco-effective practices and possibilities, and beginning a personal narrative journey of one’s own relationship to the land. **You cannot choose Headwaters courses on-line; pick up an information and application form from Guidance or download one from the Centennial website www.centennialcvi.com.**

Cost: There will be a course participation fee in the \$750 range. However, no student will be denied this program due to financial reasons. Students are bussed from their home school daily to Eden Mills for this program.

Courses (students receive 4 credits):

CGR4M: Environment and Resource Management
PAD4O: Outdoor Activities

ENG4U: University English
IDP4O: Interdisciplinary Studies

Prerequisites: All normal prerequisites must be met for the courses listed above. Although this program will target students who have already completed the grade 10 CELP program, anyone interested may apply.

Grade 12 Beyond Borders (Offered in the fall semester)**Centennial CVI**

Highlights: Beyond Borders offers active, involved, community-minded Grade 12 students a unique, integrated and experiential opportunity to combine Business, English, Media and Leadership learning with a focus on globalization, technology and social responsibility. The program will promote the importance of social responsibility and volunteer involvement in all programming. Leadership builds self worth, as do the opportunities provided to practice critical thinking in the real world, to take responsive, responsible action and to develop the positive relationships that come from working with and on behalf of children, peers and adults in the community. Students will gain the confidence to make well-informed life choices that will prepare them for bright academic futures and successful professional careers. **This program is offered in the fall semester only course. For more information visit: bit.ly/beyond_borders1**

Cost: There will be a course participation fee in the \$950 range. However, no student will be denied this program due to financial reasons. Students are bussed to Guelph Youth Music Centre.

Courses Packages (students receive 4 credits): Students can choose from the

The CEO Package:

Students will prepare to become effective managers in today's changing world. This package specializes in business leadership development and communication. Students will produce and analyze a range of media and literary works with a focus on meeting the challenges and demands of life in the 21st century.

Mandatory Course Credits: Business Leadership (BOH 4M), English (ENG4U), International Business (BBB4M)

Students choose one of the following: Advanced Functions (MHF4U), The Writer's Craft (EWC 4U) or Media Studies (IDC4U)

The Global Connections Package:

Students will examine a range of contemporary global issues such as the international marketplace and the influence of media institutions on contemporary society. This package specializes in developing media literacy as well as writing skills and international business acumen. Students will develop their leadership skills through a combined study of world history, organizational business practices and literature study.

Mandatory Course Credits: Business Leadership (BOH4M), English (ENG4U), Philosophy (HZZ4U)

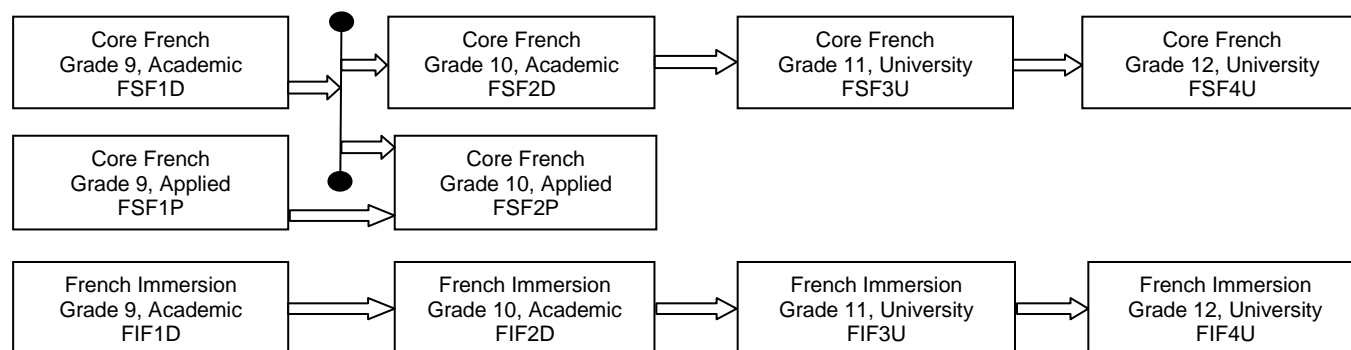
Students choose one of the following: English Writer's Craft (EWC 4U); Media Studies (IDC4U); Advance Function (MHF4U)

Prerequisites: All normal prerequisites must be met for the courses listed above.

LANGUAGES

French as a Second Language

The study of French is an important part of the secondary school curriculum. French is not only one of Canada's two official languages, but is also widely used around the world. Knowledge of a second language is valuable for a number of reasons. Through learning a second language, students can strengthen their first-language skills and enhance their critical and creative thinking abilities; they also tend to become more tolerant and respectful of other cultures. In addition, the ability to communicate in another language provides students with a distinct advantage in a number of careers, both in Canada and internationally.



Core French

The aim of the Core French program is to provide students with fundamental communication skills in French and an understanding of the nature of the language and its culture. Core French offers students the chance to develop a usable command of the French language that can be expanded through further study or through contact with French-speaking people. By the end of the four-year program, students will be able to participate in a straightforward conversation in French; will be able to read - with the help of a dictionary - books, magazines, and newspapers in French; and will be able to understand the general meaning of radio and television news and other programs.

CORE FRENCH, Grade 9, Academic

Code: FSF1D

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

Prerequisite: Minimum of 600 hours of elementary Core French instruction, or equivalent

CORE FRENCH, Grade 9, Applied

Code: FSF1P

This course provides opportunities for students to communicate and interact in French in structured situations on everyday topics and to apply their knowledge of French in everyday situations. Students will continue to develop language knowledge and skills introduced in the elementary Core French program, through practical applications and concrete examples, and will use creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary to become life-long language learners.

Prerequisite: Minimum of 600 hours of elementary Core French instruction, or equivalent

CORE FRENCH, Grade 10, Academic

Code: FSF2D

This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics in real-life situations with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will continue to develop their language knowledge and skills through the selective use of strategies that contribute to effective communication. They will also increase their understanding and appreciation of diverse French-speaking communities, and will continue to develop the skills necessary to become life-long language learners.

Prerequisite: Core French, Grade 9, Academic or Applied

This course provides opportunities for students to communicate in French about everyday matters and topics of personal interest in real-life situations. Students will exchange information, ideas, and opinions with others in structured, guided, and increasingly spontaneous spoken interactions. Students will continue to develop their language knowledge and skills through the consolidation of language-learning strategies for interpreting texts and communicating clearly. They will also increase their understanding and appreciation of diverse French-speaking communities, and will continue to develop the skills necessary to become life-long language learners.

Prerequisite: Core French, Grade 9, Academic or Applied

CORE FRENCH, Grade 11, University Preparation

Code: FSF3U

This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence. Students will develop their creative and critical thinking skills through responding to and exploring a variety of oral and written texts. They will continue to broaden their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning.

Prerequisite: Core French, Grade 10, Academic

CORE FRENCH, Grade 12, University Preparation

Code: FSF4U

This course provides extensive opportunities for students to speak and interact in French independently. Students will apply language-learning strategies in a wide variety of real-life situations, and will continue to develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. Students will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning.

Prerequisite: Core French, Grade 11, University Preparation

2. *French Immersion*

John F. Ross is the designated secondary school in Guelph for French Immersion courses. The aim of the French Immersion program is to develop and refine the students' ability to communicate in French as well as to expand their knowledge of the language through the study of Francophone literature. By the end of the four-year program, students will be able to participate easily in conversations and discussions; will be able to take courses at the college or university level in which French is the language of instruction; and will be able to accept employment in which French is the working language. **Students, who graduate with a minimum overall average of 80% in their French immersion courses, will be granted a French Immersion Certificate "with honours".**

French Immersion Certificate:

A certificate in French Immersion will be granted if the student has successfully completed the sequence of four courses in language (FIF) and a minimum of six courses in other subjects taught in French – **2 of which must be senior level courses other than Language** – for a total of at least 10 courses.

In order to offer a greater variety of courses to French Immersion students, senior level courses will now be offered on an alternate year schedule. It is imperative that students carefully select their courses in accordance to the year in which they are offered. Please take the time to plan out your course selection from grade 9 all the way through to Grade 12 in order better ensure certificate completion. The following chart outlines the French Immersion program offered at John F. Ross in alternate years **(courses will be offered as enrolment warrants).**

Year A
(September 2015, September 2017, September 2019, September 2021 etc.)

Grade 9/ 9 ^e Année	Grade 10/ 10 ^e Année	Grade 11/ 11 ^e Année	Grade 12/ 12 ^e Année
AVI1OF Visual Arts/ Arts visuels	CHC2DF History/Histoire	AVI3MF Visual Arts/ Arts visuels	HZT4UF Philosophy/Philosophie
CGC1DF Geography/Géographie	GLC2OF Careers/Exploration des choix de carrière	HRT3MF World Religions/ Étude des religions	
MPM1DF Mathematics/ Mathématiques	CHV2OF Civics/Éducation à La Citoyenneté	PPL3OF Physical Education/ Education physique	
SNC1DF Science/ Sciences	TPJ2OF Health Care/Soins de santé		
FIF1DF French/Français	FIF2DF French/Français	FIF3UF French/Français	FIF4UF French/Français

Year B
(September 2016, September 2018, September 2020, September 2022 etc.)

Grade 9/ 9 ^e Année	Grade 10/ 10 ^e Année	Grade 11/ 11 ^e Année	Grade 12/ 12 ^e Année
AVI1OF Visual Arts/ Arts visuels	CHC2DF History/ Histoire	CGG3OF Travel and Tourism/ Voyages et tourisme	HFA4UF Food and Nutrition/ Alimentation et nutrition
CGC1DF Geography/Géographie	GLC2OF Careers/Exploration des choix de carrière	PPL3OF Physical Education/ Education physique	CPW4UF Canadian And World Politics/ Politique canadienne et mondiale
MPM1DF Mathematics/ Mathématiques	CHV2OF Civics/Éducation à La Citoyenneté		
SNC1DF Science/Sciences	ADA2OF Drama/Drame		
FIF1DF French/Français	FIF2DF French/Français	FIF3UF French/Français	FIF4UF French/Français

Additional courses may be offered in future years.

- All courses have been developed according to requirements defined by the Ministry of Education.
- Further information is available at <http://www.ugdsb.on.ca>. Click on Program Department, French Immersion, and then Program Information.
- A French Language course (FIF) is mandatory for a student to stay in French Immersion.
- **Please note that students wishing to complete the French Immersion certificate may not be able to participate in other special programs due to timetable conflicts.**

FRENCH IMMERSION, Grade 9, Academic**Code: FIF1D**

This course provides opportunities for students to speak and interact in French independently in a variety of real-life and personally relevant contexts. Students will develop their ability to communicate in French with confidence by using language-learning strategies introduced in the elementary French Immersion program. Students will enhance their knowledge of the language through the study of French-Canadian literature. They will also continue to increase their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.

Prerequisite: Minimum 3800 hours of French instruction or equivalent

FRENCH IMMERSION, Grade 10, Academic**Code: FIF2D**

This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will use a variety of language-learning strategies in listening, speaking, reading, and writing, and will respond to and interact with print, oral, visual, and electronic texts. Students will develop their knowledge of the French language through the study of contemporary and historically well-known French European literature. They will also continue to increase their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.

Prerequisite: French Immersion, Grade 9, Academic.

FRENCH IMMERSION, Grade 11, University Preparation**Code: FIF3U**

This course provides opportunities for students to consolidate the communication skills required to speak and interact with increasing confidence and accuracy in French in a variety of academic and social contexts. Students will apply language-learning strategies while exploring a variety of concrete and abstract topics, and will increase their knowledge of the language through the study of French literature from around the world. They will also continue to deepen their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.

Prerequisite: French Immersion, Grade 10, Academic

FRENCH IMMERSION, Grade 12, University Preparation**Code: FIF4U**

This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will consolidate language-learning strategies and apply them while communicating about concrete and abstract topics, and will independently respond to and interact with a variety of oral and written texts. Students will study a selection of French literature from the Middle Ages to the present. They will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary to become life-long language learners.

Prerequisite: French Immersion, Grade 11, University Preparation

Grade 9/ 9^e Année**ISSUES IN CANADIAN GEOGRAPHY, Grade 9, Academic****Code: CGC1DF**

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

Prerequisite: None

PRINCIPLES OF MATHEMATICS, Grade 9, Academic**Code: MPM1DF**

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

Prerequisite: None**SCIENCE, Grade 9, Academic****Code: SNC1DF**

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

Prerequisite: None**VISUAL ARTS, Grade 9, Open****Code: AVI1OF**

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

Prerequisite: None**Grade 10/ 10^e Année****CANADIAN HISTORY SINCE WORLD WAR I, Grade 10, Academic****Code: CHC2DF**

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

Prerequisite: None**CIVICS AND CITIZENSHIP, Grade 10, Open****Code: CHV2OF**

This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today's world and of personal interest to them. **Note: This is a ½ credit course.**

Prerequisite: None

CAREER STUDIES, Grade 10, Open**Code: GLC2OF**

This course teaches students how to develop and achieve personal goals in education and work and contribute to their communities. Student learning will include assessing their own knowledge, skills, and characteristics and investigating economic trends, workplace organization, work opportunities, and ways to search for work. The course explores post secondary learning options, prepares students for community based learning, and helps them build the capabilities needed for managing work and life transitions. Students will design action plans for pursuing their goals. **Note: This is a ½ credit course.**

Prerequisite: None**HEALTH CARE, Grade 10, Open****Code: TPJ2OF**

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. **NOTE: Offered YEAR A ONLY.**

Prerequisite: None**DRAMA, Grade 10, Open****Code: ADA2OF**

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. **NOTE: Offered YEAR B ONLY.**

Prerequisite: None**Grade 11/11^e Année****HEALTHY ACTIVE LIVING EDUCATION, Grade 11, Open****Code: PPL3OF Coed**

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, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety. **NOTE: There will be a fee for hockey and swimming options.**

Prerequisite: None**VISUAL ARTS, Grade 11, University/College Preparation****Code: AVI3MF**

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

Prerequisite: Visual Arts, Grade 9 or 10, Open

**WORLD RELIGIONS: BELIEFS, ISSUES, AND RELIGIOUS TRADITIONS,
Grade 11, University/College Preparation**

Code: HRT3MF

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. **NOTE : Offered YEAR A ONLY**

Prerequisite: None

**TRAVEL AND TOURISM: A REGIONAL GEOGRAPHIC PERSPECTIVE,
Grade 11, Open**

Code: CGG3OF

This course focuses on travel and tourism as the vehicle for studying 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. **Note: Offered YEAR B ONLY**

Prerequisite: Geography of Canada, Grade 9, Academic or Applied

Grade 12/ 12^e Année

Nutrition and Health, Grade 12, University/College Preparation

Code: HFA4UF

This course examines the relationships between food, energy balance, and nutritional status; the nutritional needs of individuals at different stages of life; and the role of nutrition in health and disease. Students will evaluate nutrition-related trends and will determine how food choices can promote food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and develop their social science research skills by investigating issues related to nutrition and health. **Course enhancements include practical nutrition labs with a complex skill level based on Canadian Nutrition standards. An enhancement fee is requested.**

NOTE: Offered YEAR B ONLY

Prerequisite: Any university, university/college in social science and humanities, English, or Canadian and world studies

CANADIAN AND WORLD POLITICS, Grade 12, University Preparation

Code: CPW4UF

This course explores various perspectives on issues in Canadian and world politics. Students will explore political decision-making and ways in which individuals, stakeholder groups, and various institutions, including different levels of government, multinational corporations, and non-governmental organizations, respond to and work to influence domestic and international developments. Students will apply the concepts of political thinking and the political inquiry process to investigate current political policies, issues, and events, and to develop and communicate informed opinions about them. *This course is accepted for the Ross School of Business Pathway Certificate. Please see www.rossschoolofbusiness.ca for further information .*

NOTE: Offered YEAR B ONLY

Any "U" or "M" course in Canadian and world studies, English, or social sciences and humanities

PHILOSOPHY: QUESTIONS AND THEORIES, Grade 12, University Preparation

Code: HZT4UF

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 these ideas to contemporary social issues and personal experiences. The course will also help students refine skills used in researching and investigating topics in philosophy.

NOTE: Offered YEAR A ONLY

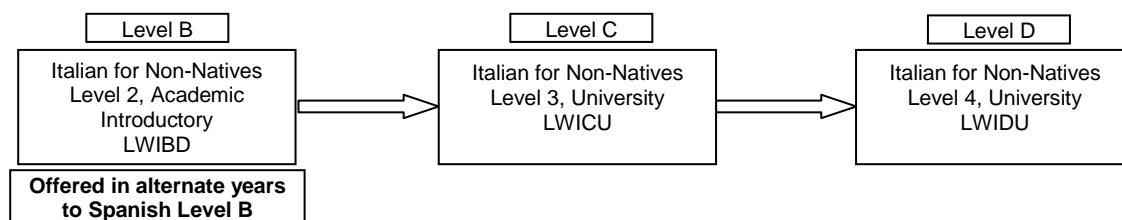
Prerequisite: Any university, university/college in social sciences and humanities, English, or Canadian and world studies

3. International Languages

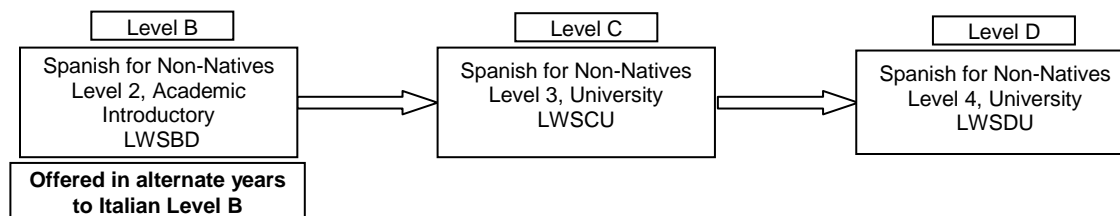
Language is our principal means of communication. As societies around the world become more closely linked through advances in technology, the ability to communicate in more than one language becomes increasingly important. The study of languages helps students to express themselves with confidence and develops their ability to solve problems and to think creatively. These skills enable students to analyse and use information from around the world and to communicate effectively in the international language for both business and personal purposes.

The International Language Program develops students' oral communication and listening skills, and enhances their general learning skills. In addition, the interdisciplinary nature of language allows students to explore such related areas of study as history, geography, music, art, literature, business, and world issues. The following charts outline the courses in the International Language program and show the link between courses and prerequisites for them. Students can begin an International Language course at level B in any year of their secondary school program. **(Grade 10 is recommended if the student wants to finish the program by the end of grade 12.)**

Italian for Non-Native Speakers



Spanish for Non-Native Speakers



SPANISH (Level 2 - Introductory)

Code: LWSBD

This course enables students to develop competence in listening, speaking, reading, and writing in the language of study. Students will continue to participate in interactive activities in which they can apply and develop their language skills to communicate with native speakers of the language. They will explore aspects of culture in regions of the world where the language is spoken, including social customs, food, sports and leisure activities, popular festivals, and music. Although students will expand their vocabulary and knowledge of linguistic elements, the language they will use at this level will still be simple. **Offered in alternate years to Italian Level 2.**

Prerequisite: None

SPANISH (Level 3), University Preparation**Code: LWSCU**

This course offers students opportunities to further develop competence and confidence in listening, speaking, reading, and writing in the language of study. Students will participate in interactive activities (e.g., discussions about literature, travel, shopping) in which they will further develop their knowledge of linguistic elements. They will continue to explore aspects of culture in regions of the world where the language is spoken, including fashion, historical figures, art, and architecture. Students will enhance their critical and creative thinking skills through reading diverse materials, including original literature, and will explore a variety of personal and professional contexts in which knowledge of the international language is required.

Prerequisite: Spanish (Level 2) – LWSBD**ITALIAN (Level 2 - Introductory)****Code: LWIBD**

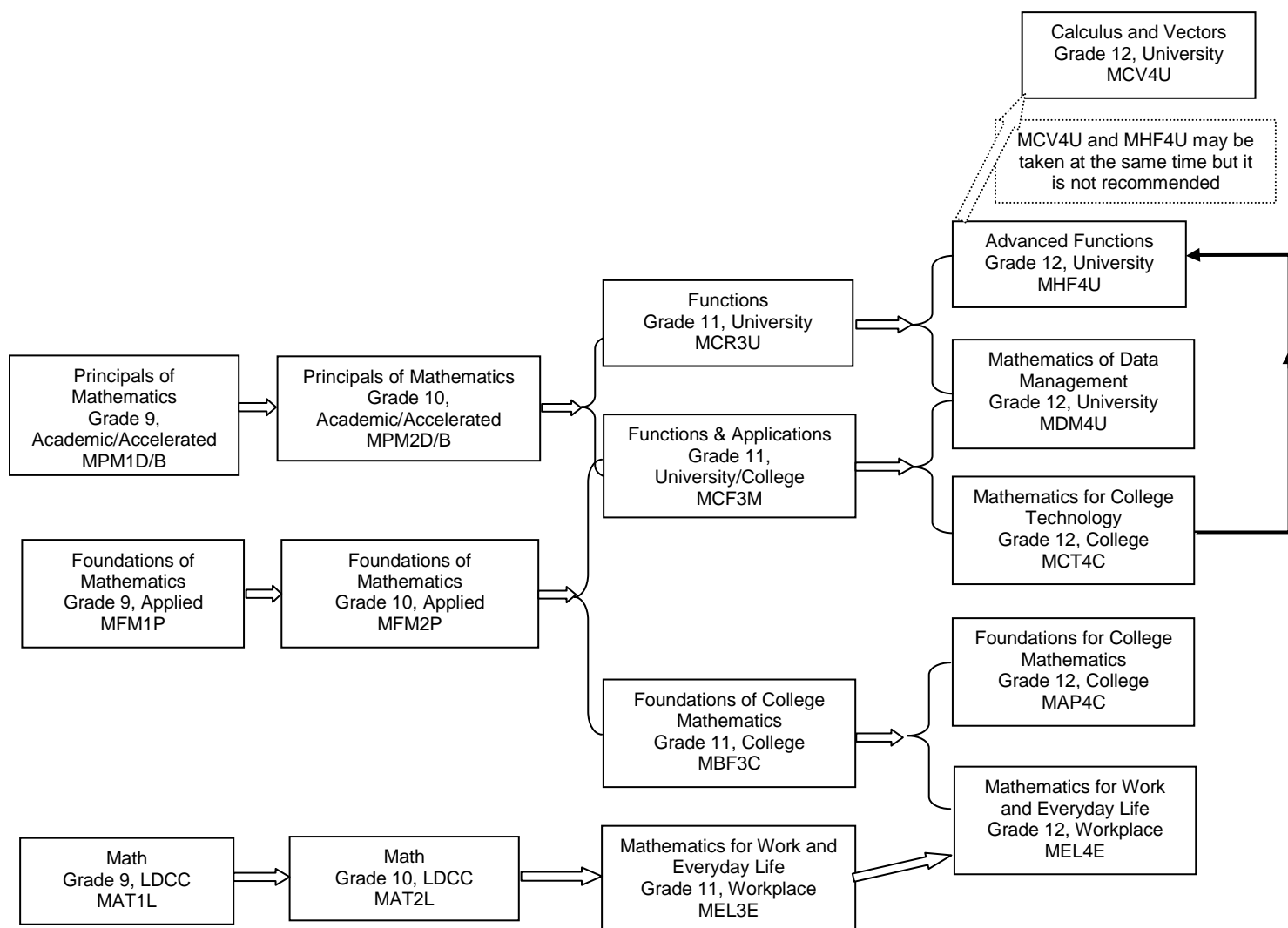
This course enables students to develop competence in listening, speaking, reading, and writing in the language of study. Students will continue to participate in interactive activities in which they can apply and develop their language skills to communicate with native speakers of the language. They will explore aspects of culture in regions of the world where the language is spoken, including social customs, food, sports and leisure activities, popular festivals, and music. Although students will expand their vocabulary and knowledge of linguistic elements, the language they will use at this level will still be simple. **Offered in alternate years to Spanish Level 2.**

Prerequisite: None**ITALIAN (Level 3), University Preparation****Code: LWICU**

This course offers students opportunities to further develop competence and confidence in listening, speaking, reading, and writing in the language of study. Students will participate in interactive activities (e.g., discussions about literature, travel, shopping) in which they will further develop their knowledge of linguistic elements. They will continue to explore aspects of culture in regions of the world where the language is spoken, including fashion, historical figures, art, and architecture. Students will enhance their critical and creative thinking skills through reading diverse materials, including original literature, and will explore a variety of personal and professional contexts in which knowledge of the international language is required.

Prerequisite: Italian (Level 2) – LWIBD

MATHEMATICS



PRINCIPLES OF MATHEMATICS, Grade 9, Academic

Code: MPM1D

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

Prerequisite: None

PRINCIPLES OF MATHEMATICS, Grade 10, Accelerated

Code: MPM1DB

Course description as in MPM1D. **Students should have demonstrated a high level of interest and motivation in mathematics and should be able to work both independently and collaboratively.**

Prerequisite: Recommendation from the grade 8 Mathematics teacher

FOUNDATIONS OF MATHEMATICS, Grade 9, Applied**Code: MFM1P**

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.

Prerequisite: None**MATHEMATICS - LOCALLY DEVELOPED, Grade 9****Code: MAT1L**

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 the 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.

Prerequisite: None**PRINCIPLES OF MATHEMATICS, Grade 10, Academic****Code: MPM2D**

This course enables students to broaden their understanding of relationships, and extend their problem solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic 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 multi-step problems and communicate their thinking.

Prerequisite: Mathematics, Grade 9, Academic (a grade of 70% or higher is recommended).**PRINCIPLES OF MATHEMATICS, Grade 10, Accelerated****Code: MPM2DB**

Course description as in MPM2D. **Students should have demonstrated a high level of interest and motivation in mathematics and should be able to work both independently and collaboratively.**

Prerequisite: Mathematics, Grade 9, Academic with high achievement. Separate application and teacher recommendation will be required.**FOUNDATIONS OF MATHEMATICS, Grade 10, Applied****Code: MFM2P**

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-angled triangles, and the measurement of three-dimensional objects. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: Mathematics, Grade 9, Academic or Applied**MATHEMATICS - LOCALLY DEVELOPED, Grade 10****Code: MAT2L**

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 the 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.

Prerequisite: A Grade 9 Mathematics credit

FUNCTIONS, Grade 11, University preparation**Code: MCR3U**

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: Principles of Mathematics, Grade 10, Academic (a grade of 70% or higher is recommended).

FUNCTIONS AND APPLICATIONS, Grade 11, University/College preparation**Code: MCF3M**

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: Principles of Mathematics, Grade 10, Academic, Foundations of Mathematics, Grade 10, Applied

FOUNDATIONS FOR COLLEGE MATHEMATICS, Grade 11, College preparation**Code: MBF3C**

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

Prerequisite: Foundations of Mathematics, Grade 10, Applied

**MATHEMATICS FOR WORK AND EVERYDAY LIFE, Grade 11,
Workplace Preparation****Code: MEL3E**

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

Prerequisite: Mathematics, Grade 9, Academic, Applied, Grade 10 Essentials or Applied

ADVANCED FUNCTIONS, Grade 12, University Preparation**Code: MHF4U**

This course extends on 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

CALCULUS AND VECTORS, Grade 12, University Preparation**Code: MCV4U**

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, 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. **It is recommended to take MHF4U before Calculus and Vectors**

Prerequisite: Advanced Functions, Grade 12, University Preparation

MATHEMATICS OF DATA MANAGEMENT, Grade 12, University Preparation**Code: MDM4U**

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

MATHEMATICS FOR COLLEGE TECHNOLOGY, Grade 12, College Preparation**Code: MCT4C**

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 or Functions, Grade 11, University Preparation

FOUNDATIONS FOR COLLEGE MATHEMATICS, Grade 12, College Preparation**Code: MAP4C**

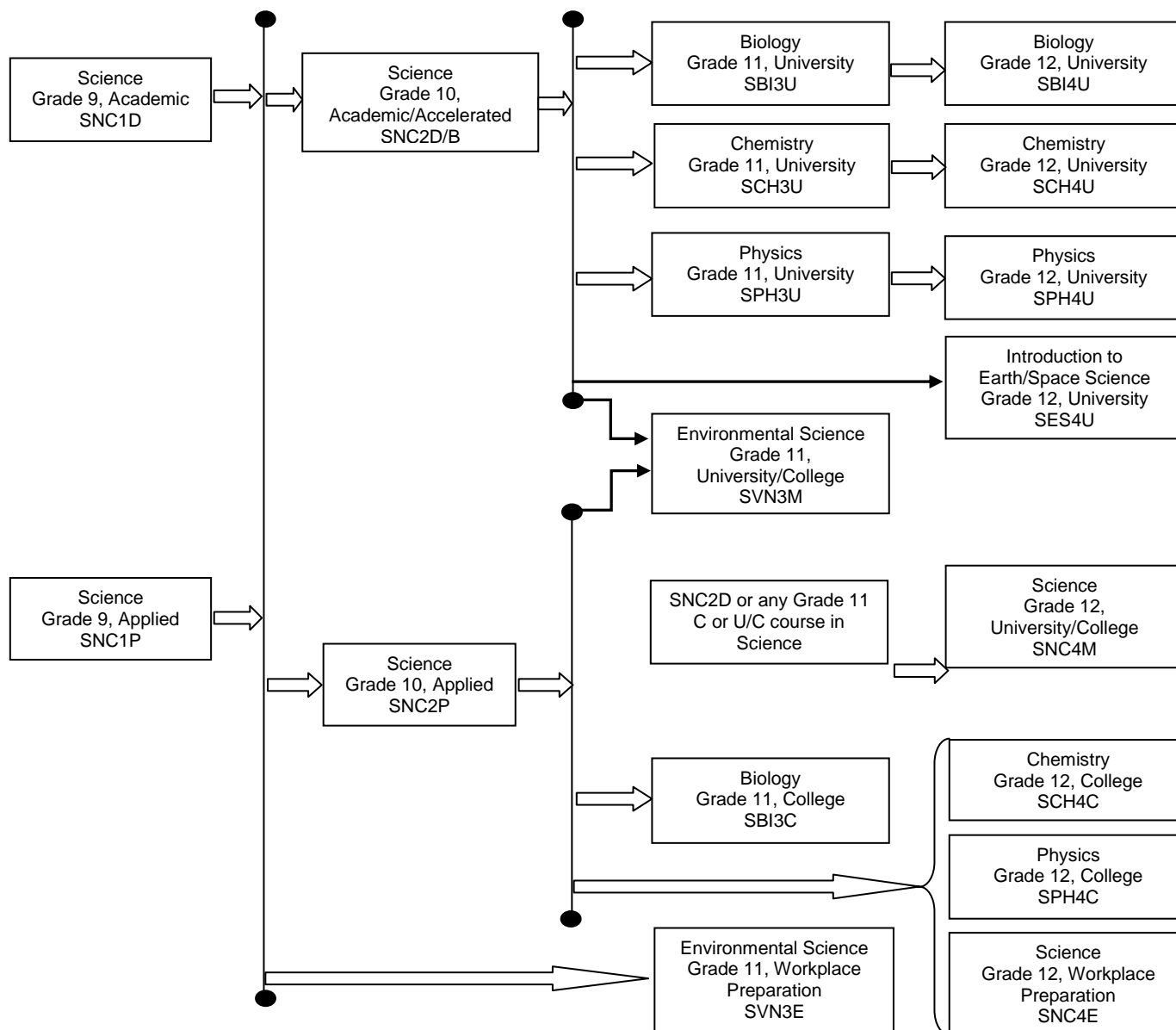
This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; simplify expressions; and solve equations. Students will reason mathematically 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. **Please note that this course may not meet some college acceptance requirements.**

Prerequisite: Foundations for College Mathematics, Grade 11, College Preparation

**MATHEMATICS FOR WORK AND EVERYDAY LIFE, Grade 12,
Workplace Preparation****Code: 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; 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 Everyday Life, Grade 11, Workplace Preparation



Science, Grade 9, Academic

Code: SNC1D

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

Prerequisite: None

Science, Grade 9, Applied

Code: SNC1P

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems; the structure and properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.

Prerequisite: None

Science, Grade 10, Academic**Code: SNC2D**

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

Prerequisite: Science, Grade 9, Academic or Applied

Science, Grade 10, Accelerated**Code: SNC2DB**

Course description as in SNC2D. Students should have demonstrated a high level of interest, motivation and achievement in SNC1D and be able to work both independently and collaboratively.

Prerequisite: Science, Grade 9, Academic with high achievement. Separate application and teacher recommendation.

Science, Grade 10, Applied**Code: SNC2P**

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

Prerequisite: Science, Grade 9, Academic or Applied

Biology, Grade 11, University Preparation**Code: SBI3U**

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

Prerequisite: Science, Grade 10, Academic

Biology, Grade 11, College Preparation**Code: SBI3C**

This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.

Prerequisite: Science, Grade 10, Academic or Applied

Biology, Grade 12, University Preparation**Code: SBI4U**

This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields. **It is HIGHLY RECOMMENDED that Grade 11 Chemistry (SCH3U1) be completed prior to taking this course.**

Prerequisite: Biology, Grade 11, University Preparation

Chemistry, Grade 11, University Preparation**Code: SCH3U**

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

Prerequisite: Science, Grade 10, Academic**Chemistry, Grade 12, University Preparation****Code: SCH4U**

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

Prerequisite: Chemistry, Grade 11, University Preparation**Chemistry, Grade 12, College Preparation****Code: SCH4C**

This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use a variety of laboratory techniques, develop skills in data collection and scientific analysis, and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and the effects of technological applications and processes on society and the environment.

Prerequisite: Science, Grade 10, Academic or Applied**Earth and Space Science, Grade 12, University Preparation****Code: SES4U**

This course develops students' understanding of Earth and its place in the universe. Students will investigate the properties of and forces in the universe and solar system and analyse techniques scientists use to generate knowledge about them. Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives. The course draws on biology, chemistry, physics, and mathematics in its consideration of geological and astronomical processes that can be observed directly or inferred from other evidence. **NOTE: this course is offered as a blended online/in class model, access to a reliable computer and internet connection is highly recommended.**

Prerequisite: Science, Grade 10, Academic.**Environmental Science, Grade 11, University/College Preparation****Code: SVN3M**

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.

Prerequisite: Science, Grade 10, Applied or Academic

Environmental Science, Grade 11, Workplace Preparation**Code: SVN3E**

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

Physics, Grade 11, University Preparation**Code: SPH3U**

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

Prerequisite: Science, Grade 10, Academic

Physics, Grade 12, University Preparation**Code: SPH4U**

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

Physics, Grade 12, College Preparation**Code: SPH4C**

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

Prerequisite: Science, Grade 10, Academic or Applied

Science, Grade 12, University/College Preparation**Code: SNC4M**

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: Science, Grade 10, Academic, or any Grade 11 university, university/college, or college preparation course in science

SOCIAL STUDIES AND HUMANITIES

Note: Enhancements are offered in some of the family studies courses to maximize experiential learning opportunities. An enhancement fee may be requested.

Food and Nutrition

Individual and Family Living
Grade 9, Open
HIF1O

Food and Nutrition
Grade 10, Open
HFN2O

Hospitality and Tourism
Grade 11, Workplace
TFJ3CD

Personal Life Management, Grade
12 Open,
HIP4O

Any Grade 11 or 12 University,
University/College or College preparation
course in social sciences and humanities,
English or Canadian and world studies

Food and Culture,
Grade 11, University/College
HFC3M

Any Grade 11 or 12 University or
University/College preparation course in
social sciences and humanities, English
or Canadian and world studies

Nutrition and Health,
Grade 12, College
HFA4C

Nutrition and Health,
Grade 12, University/College
HFA4U

Raising and Caring for Children

Individual and Family Living
Grade 9, Open
HIF1O

Raising Healthy Children,
Grade 11, Open
HPC3O

Any Grade 11 or 12 University,
University/College or College preparation
course in social sciences and humanities,
English or Canadian and world studies

Working With School-Age Children
and Adolescents,
Grade 12, College
HPD4C

Human Development Throughout
the Lifespan,
Grade 12, University/College
HHG4M

Fashion and Housing

Individual and Family Living
Grade 9, Open
HIF1O

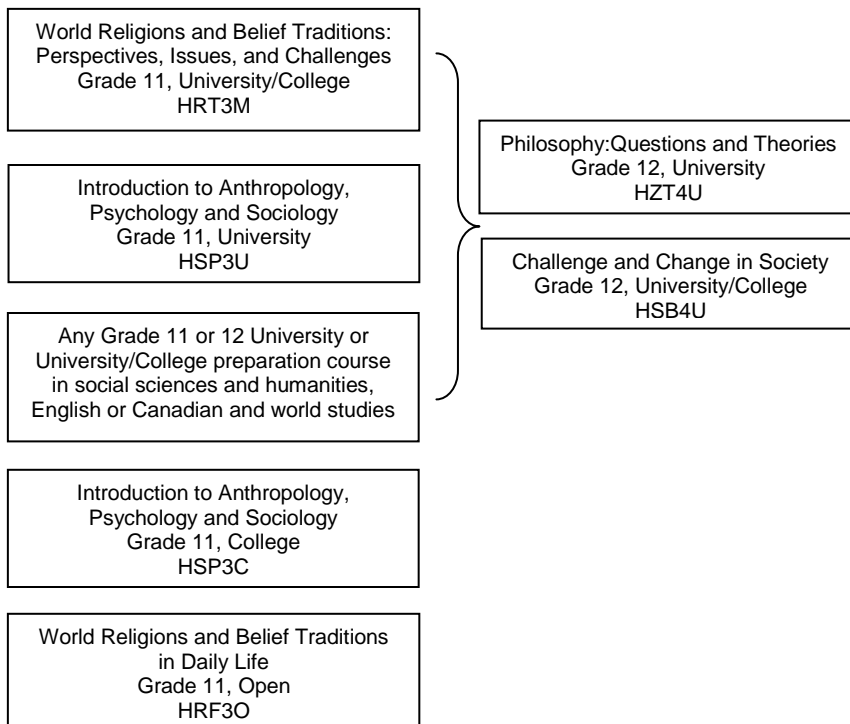
Understanding Fashion,
Grade 11, Open
HNC3O

Any Grade 11 or 12 University,
University/College or College preparation
course in social sciences and humanities,
English or Canadian and world studies

Housing and Home Design,
Grade 11, Open
HLS3O

The World of Fashion,
Grade 12, Open
HNB4M

General Social Sciences



FAMILY STUDIES

Exploring Family Studies, Grade 9

Code: HIF10

This course explores, within the context of families, some of the fundamental challenges people face: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible members of society. Students will explore adolescent development and will have opportunities to develop interpersonal, decision-making, and practical skills related to daily life. They will learn about the diverse ways in which families function in Canada and will use research skills as they explore topics related to individual and family needs and resources. **Course enhancements include practical nutrition labs with a basic skill focus on environmental textiles/cushion project and a field trip to experience Ontario grown and prepared food. An enhancement fee is requested.**

Prerequisite: None

FOOD AND NUTRITION, Grade 10, Open

Code: HFN20

This course focuses on guidelines for making nutritious food choices. Students will investigate factors that influence food choices, including beliefs, attitudes, current trends, traditional eating patterns, food marketing strategies, and individual needs. Students will also explore the environmental impact of a variety of food choices at the local and global level. The course provides students with opportunities to develop food preparation skills and introduces them to the use of social science research methods in the area of food and nutrition. **Practical nutrition labs focus on nutritious meal preparations at a basic level. An enhancement fee is requested.**

Prerequisite: None

HOSPITALITY AND TOURISM, Grade 11, College Preparation**Code: TFJ3CD**

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. **This is a hands on industrial cooking course with 2-3 lab days per week and theory on the other days. An enhancement fee is requested and includes practical nutrition labs, a chef's hat, binder, and one trip. THIS IS TWO CREDIT COURSE.**

Prerequisite: None**FOOD AND CULURE, Grade 11, University/College Preparation****Code: HFC3M**

This course focuses on the flavours, aromas, cooking techniques, foods, and cultural traditions of world cuisines. Students will explore the origins of and developments in diverse food traditions. They will demonstrate the ability to cook with ingredients and equipment from a variety of cultures, compare food-related etiquette in many countries and cultures, and explain how Canadian food choices and traditions have been influenced by other cultures. Students will develop practical skills and apply social science research methods while investigating foods and food practices from around the world. **Approximately six classes a month will be devote to food labs. An enhancement fee is requested.**

Prerequisite: None**Understanding Fashion, Grade 11, Open****Code: HNC3C**

This course introduces students to the world of fashion. Students will gain an understanding of theories related to fashion trends and of how culture, media, fashion cycles, retailing, and social and environmental factors influence fashion trends and consumer behaviour. Students will use various tools, technologies, and techniques safely and correctly to create fashion items. They will apply knowledge of fibres, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion. **Practical textile labs are offered that focus on basic sewing skills. Course enhancements vary according to student choices and skill level. An enhancement fee is requested.**

Prerequisite: None**Housing and Home Design, Grade 11, Open****Code: HLS3O**

This course introduces students to a range of issues related to housing and home design. Students will learn about the needs that housing fulfills; housing options; home maintenance and safety; and environmental, economic, legal, and social considerations related to housing. They will use the elements and principles of design to analyse design and decorating decisions. Students will develop research skills as they investigate issues related to housing and home design.

Prerequisite: None**Raising Healthy Children, Grade 11, Open****Code: HPC3O**

This course focuses on the skills and knowledge parents, guardians, and caregivers need, with particular emphasis on maternal health, pregnancy, birth, and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with them, and effectively guide their early behaviour. Students will develop their research skills through investigations related to caregiving and child rearing. **This course explores pregnancy, birthday and parenting up to the preschool age. Experiential learning opportunities are offered with an electronic infant and hands on activities with preschoolers.**

Prerequisite: None

**Working With School-Age Children and Adolescents, Grade 12 ,
College Preparation**

Code: HPD4C

This course prepares students for occupations involving school-age children and adolescents. Students will study a variety of theories about child behaviour and development, and will have opportunities for research and observation and for practical experiences with older children. Students will become familiar with occupational opportunities and requirements related to working with older children and adolescents. They will develop research skills used in investigating child and adolescent behaviour and development

Prerequisite: Any university, university/college, or college preparation course in social science and humanities, English, or Canadian and world studies

Nutrition and Health, Grade 12, University/College Preparation

Code: HFA4U

This course examines the relationships between food, energy balance, and nutritional status; the nutritional needs of individuals at different stages of life; and the role of nutrition in health and disease. Students will evaluate nutrition-related trends and will determine how food choices can promote food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and develop their social science research skills by investigating issues related to nutrition and health. **Course enhancements include practical nutrition labs with a complex skill level based on Canadian Nutrition standards. An enhancement fee is requested.**

Prerequisite: Any university, university/college in social science and humanities, English, or Canadian and world studies

Nutrition and Health, Grade 12 College Preparation

Code: HFA4C

This course focuses on the relationship between nutrition and health at different stages of life and on global issues related to food production. Students will investigate the role of nutrition in health and disease and assess strategies for promoting food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and refine their ability to use social science research and inquiry methods to investigate topics related to nutrition and health. **Course enhancements include practical nutrition labs with a complex skill level based on Canadian Nutrition standards. An enhancement fee is requested.**

Prerequisite: Any university, college, or university/college preparation course in social sciences and humanities, English, or Canadian and world studies.

Personal Life Management, Grade 12 Open

Code: HIP4O

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

Prerequisite: None

**Human Development Throughout the Lifespan, Grade 12,
University/College Preparation**

Code: HHG4M

This course offers a multidisciplinary approach to the study of human development throughout the lifespan. Students will learn about a range of theoretical perspectives on human development. They will examine threats to healthy development as well as protective factors that promote resilience. Students will learn about physical, cognitive, and social-emotional development from the prenatal period through old age and will develop their research and inquiry skills by investigating issues related to human development. **Experiential learning opportunities are offered by completing a practical component of developing activities for kindergarten children at a local elementary school.**

Prerequisite: Any university, university/college, or college preparation course in social sciences and humanities, English, or Canadian and world studies

This course gives students the opportunity to explore the world of fashion. Students will learn how to create a fashion product using various tools, techniques and technologies while developing their practical skills. Students will learn about various factors that affect the global fashion industry, the needs of specialized markets, and the impact of fibre and fabric production and care. In addition, they will learn about social and historical influences on fashion. Students will apply research skills when investigating aspects of the fashion world. **Practical textile labs are offered that focus on basic to complex sewing skills. Course enhancements vary according to students' choices and skill level. An enhancement fee is requested.**

Prerequisite: Any university, college, or university/college preparation course in social sciences and humanities, English, or Canadian and world studies.

GENERAL SOCIAL SCIENCES

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

Code: HSP3U

This course provides students with opportunities to think critically about theories, questions, and issues related to anthropology, psychology, and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives, to conduct social science, and to become familiar with current thinking on a range of issues within the three disciplines.

Prerequisite: Grade 10 academic course in English, or the grade10 academic course in History.

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

Code: HSP3C

This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. They will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues within the three disciplines.

Prerequisite: None

World Religions and Belief Traditions: Perspectives, Issues, and Challenges, Grade 11 University/College Preparation

Code: HRT3M

This course provides students with opportunities to explore various world religions and belief traditions. Students will develop knowledge of the terms and concepts relevant to this area of study, will examine the ways in which religions and belief traditions meet various human needs, and will learn about the relationship between belief and action. They will examine sacred writings and teachings, consider how concepts of time and place influence different religions and belief traditions, and develop research and inquiry skills related to the study of human expressions of belief.

Prerequisite: None

World Religions and Belief Traditions in Daily Life, Grade 11, Open

Code: HRF3O

This course enables students to study world religions and belief traditions in local, Canadian, and global contexts. Students will explore aspects of the human quest for meaning and will examine world religions and belief traditions as exemplified in various sacred teachings and principles, rites, and passages. They will also study the interaction throughout history between society and various belief traditions, and will have opportunities to develop research and inquiry skills related to the study of world religions and belief traditions.

Prerequisite: None

PHILOSOPHY: QUESTIONS AND THEORIES, Grade 12, University Preparation**Code: HZT4U**

This course enables students to acquire an understanding of the nature of philosophy and philosophical reasoning skills and to develop and apply their knowledge and skills while exploring specialized branches of philosophy (the course will cover at least three of the following branches: metaphysics, ethics, epistemology, philosophy of science, social and political philosophy, aesthetics). Students will develop critical thinking and philosophical reasoning skills as they formulate and evaluate arguments related to a variety of philosophical questions and theories. They will also develop research and inquiry skills related to the study and practice of philosophy.

Prerequisite: Any university or university/college course in social sciences and humanities, English, or Canadian and world studies

CHALLENGE AND CHANGE IN SOCIETY, Grade 12, University Preparation**Code: HSB4U**

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

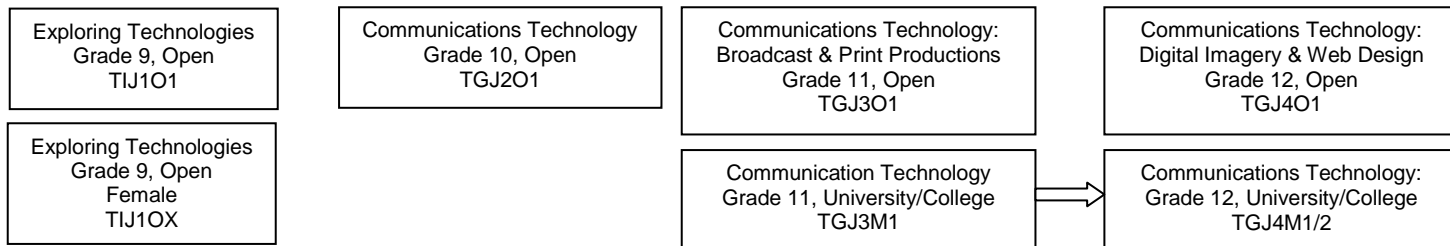
Prerequisite: Any university or university/college course in social sciences and humanities, English, or Canadian and world studies

TECHNOLOGICAL EDUCATION

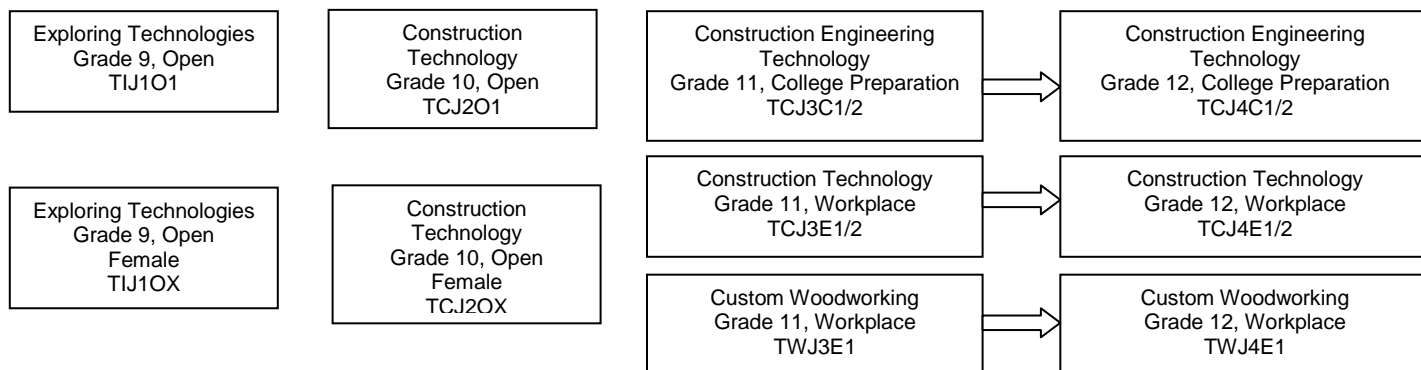
ENHANCEMENT FEES IN TECH: Students may be required to pay fees for enhancements to courses in Technological Education.

Note: X represents Female Tech Classes

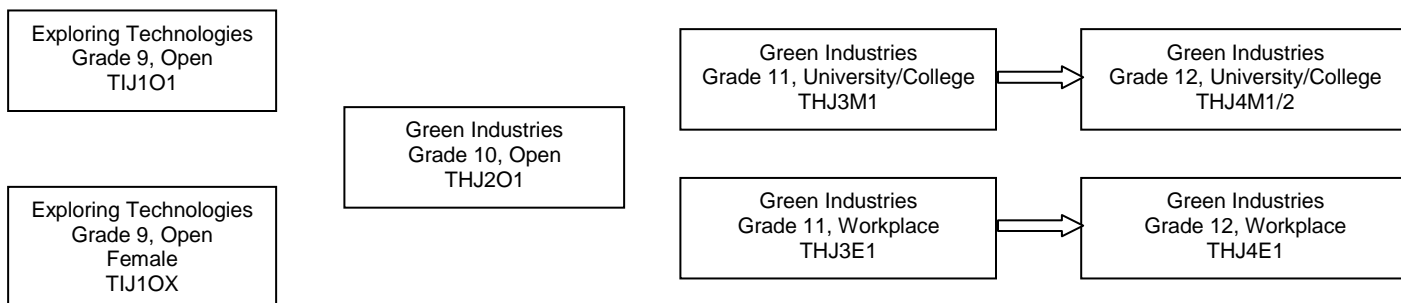
COMMUNICATIONS TECHNOLOGY



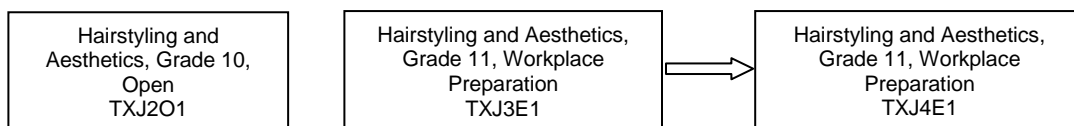
CONSTRUCTION TECHNOLOGY



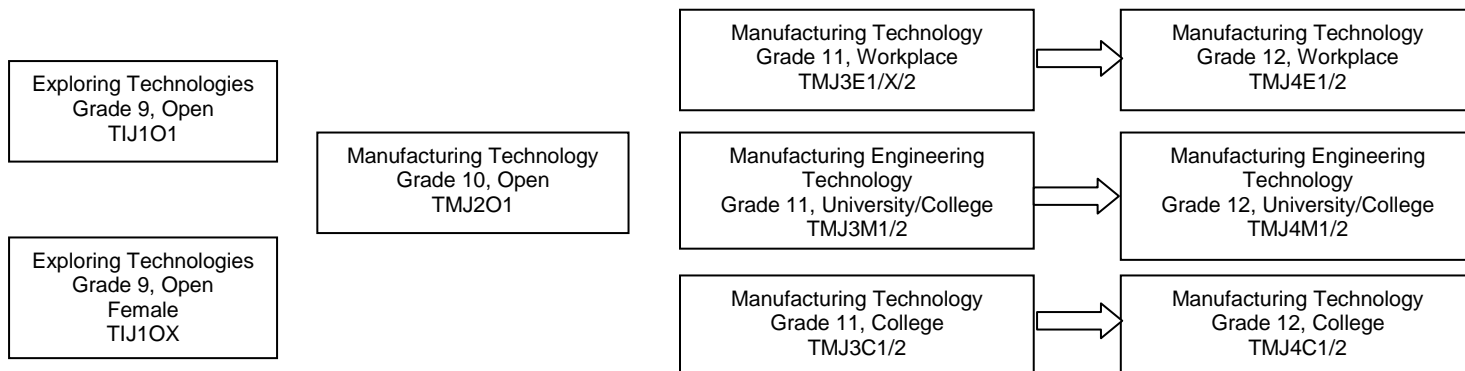
GREEN INDUSTRIES



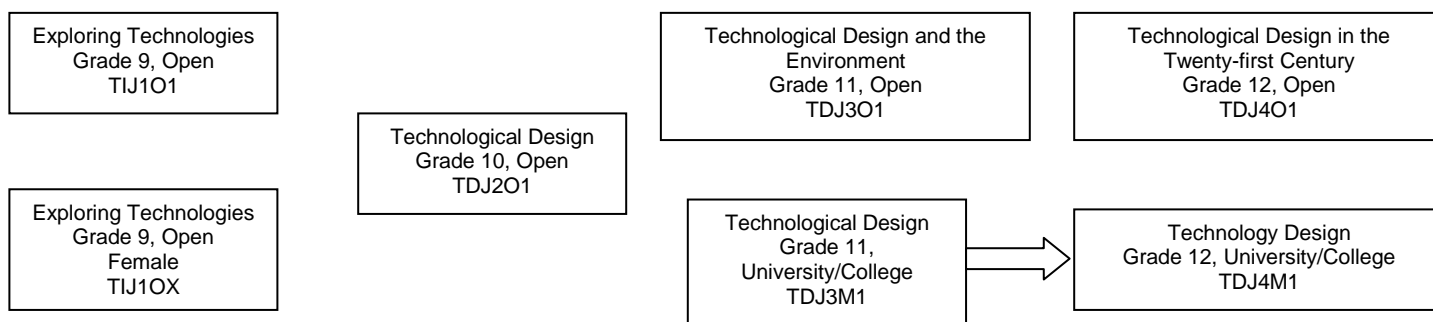
HAIRSTYLING AND AESTHETICS



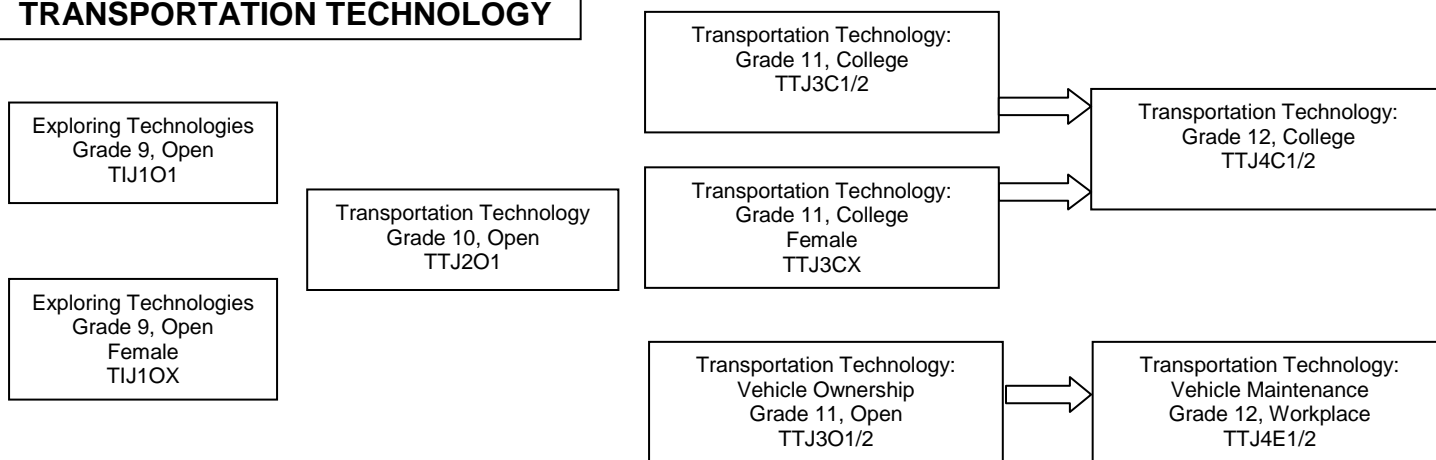
MANUFACTURING TECHNOLOGY



TECHNOLOGICAL DESIGN



TRANSPORTATION TECHNOLOGY



MULTIPLE CREDIT COURSES

The Technology Department offers multiple credit courses in selected areas to provide students with the opportunity to develop knowledge and refine skills needed to raise the quality of their work. This enhancement better prepares students to: enter an apprenticeship program, participate in school-to-work transition programs (Co-op/OYAP), experience success in post-secondary programs, and enter directly into the workforce. Multiple credit courses consist of 2 credits, one each semester. The student must be successful in the first semester in order to continue the course in semester two. **Please see the Tech Department Head or the subject technology teacher for detailed course counseling about these options.** *Note: Space is limited in multi-credit courses (e.g. TGJ4E2, TCJ3E2, TCJ4E2, TMJ4E2, TTJ4E2) and priority will be given to those students accepted into the appropriate Coop and/or OYAP program.*

There will be an enhancement fee charged in the following courses to assist with materials for individual student projects:

\$10.00 – TGJ 20/30/3M/4M

\$20.00 – TCJ20

\$20.00 – TCJ3C/E, TCJ4C/E, TMJ20, TMJ3E/3E2, TMJ4E/4E2

\$10.00 – TDJ 20/3M/ TDJ4M1 TDJ4M2

All tech courses can be taken as a Co-op. Choose FTECO2T if you wish to take a Tech Co-op.

BROAD-BASED TECHNOLOGY

Exploring Technologies, Grade 9, Open

Code: TIJ101

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

Prerequisite: None

Exploring Technologies, Grade 9, Open

Code: TIJ10X

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.

This course is open to female students only.

Prerequisite: None

COMMUNICATIONS TECHNOLOGY

Communications Technology, Grade 10, Open

Code: TGJ201

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.

Prerequisite: None

Communications Technology: Broadcast and Print Production, Grade 11, Open**Code: TGJ3O1**

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.

Prerequisite: None**Communication Technology, Grade 11, University/College Preparation****Code: TGJ3M1**

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

Prerequisite: None**Communications Technology: Digital Imagery and Web Design, Grade 12, Open****Code: TGJ4O1**

This course enables students to develop knowledge and skills in the areas of photography, digital imaging, animation, 3D modelling, 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.

Prerequisite: None**Communications Technology, Part 1, Grade 12, University/College Preparation****Code: TGJ4M1**

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 the rapidly changing technological environment.

Prerequisite: Communications Technology, Grade 11, University/College Preparation**Communications Technology Grade 12, University/College Preparation****Code: TGJ4M2**

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. **This course will provide students with an opportunity to practice and refine skills learned in TGJ4M1 (part1)**

Prerequisite: Communications Technology, Part 1, Grade 12, University/College Preparation

Grade 10 Construction

Code: TCJ2O1

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.

Prerequisite: None

Grade 10 Construction

Code: TCJ2OX

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. **This course is for Female students only.**

Prerequisite: None

Construction Technology, Part 1, Grade 11, Workplace Preparation

Code: TCJ3E1

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, layout, 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. **This is the Home Handy Person course.**

Prerequisite: None

Construction Technology, Grade 11, Workplace Preparation

Code: TCJ3E2

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 post secondary and career opportunities in the field. **This course will emphasize residential house construction as its focus to achieve expectations and will allow students to practice and refine skills learned in TCJ3E1 course.**

Prerequisite: Construction Technology, Part 1, Grade 11, Workplace Preparation. TCJ3E1

Construction Technology, Part 1, Grade 12, Workplace Preparation**Code: TCJ4E1**

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: Construction Technology, Grade 11, Workplace or College Preparation (TCJ3E or TCJ3C)

Construction Technology, Grade 12, Workplace Preparation**Code: TCJ4E2**

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. **This course will allow students to practice and refine skills learned in TCJ4E1 course.**

Prerequisite: Construction Technology, Part 1, Grade 12, Workplace Preparation TCJ4E1

Construction Engineering Technology, Part 1, Grade 11, College Preparation**Code: TCJ3C1**

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. **This course will emphasize architectural drafting, design and model making as a focus to achieve course expectations.**

Prerequisite: None

Construction Engineering Technology, Grade 11, College Preparation**Code: TCJ3C2**

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. **This course will emphasize architectural drafting, design and model making as a focus to achieve course expectations and will allow students to practice and refine skills learned in TCJ3C1 course.**

Prerequisite: Construction Engineering Technology, Part 1, Grade 11, College Preparation. TCJ3C1

Construction Engineering Technology, Part 1, Grade 12, College Preparation**Code: TCJ4C1**

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. **This course will emphasize architectural drafting, design and model making as a focus to achieve course expectations.**

Prerequisite: Construction Engineering Technology, Grade 11, College Preparation TCJ3C

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. **This course will emphasize architectural drafting, design and model making as a focus to achieve course expectations and will allow students to practice and refine skills learned in TCJ4C1 course.**

Prerequisite: Construction Engineering Technology, Part 1, Grade 12, College Preparation. TCJ4C1

Custom Woodworking, Grade 11, Workplace Preparation

Code: TWJ3E1

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.

Prerequisite: None

Custom Woodworking, Grade 12, Workplace Preparation

Code: TWJ4E1

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: Custom Woodworking, Grade 11, Workplace Preparation

GREEN INDUSTRIES

Green Industries, Grade 10, Open

Code: THJ2O1

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.

Prerequisite: None

Green Industries, Grade 11, University/College Preparation**Code: THJ3M1**

This course enables students to develop knowledge and skills related to agriculture, forestry, horticulture, and landscaping. Students will study the identification, growth, and management of plants and animals and develop process, design, and management skills required in the green industries. Students 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 will explore postsecondary education programs and career opportunities

Prerequisite: None**Green Industries, Landscape Design, Grade 11, Workplace****Code: THJ3E1**

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. **The focus of this course is landscape design.**

Prerequisite: None**Green Industries, Grade 12, University/College Preparation****Code: THJ4M1**

This course focuses on more complex concepts and skills related to the green industries. Students will focus on developing process skills, design and management techniques, and 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. The knowledge and skills acquired in this course will prepare students for more specialized studies at the college and university level. **Note: Students must provide their own safety boots and have access to transportation.**

Prerequisite: Green Industries, Grade 11, University/College Preparation, **An application must be completed.****Green Industries, Grade 12, Part 2, University/College Preparation****Code: THJ4M2**

This course focuses on more complex concepts and skills related to the green industries. Students will focus on developing process skills, design and management techniques, and 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. The knowledge and skills acquired in this course will prepare students for more specialized studies at the college and university level. These credits will allow students to further refine the skills developed in the Grade 11 and 12 single credit courses. **Note: Students must provide their own safety boots and have access to transportation.**

Prerequisite: Green Industries, Grade 11, University/College Preparation, an application must be completed.**Green Industries, Landscape Design, Grade 12, Workplace****Code: THJ4E1**

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. **The focus of this course is landscape design and will allow students to practice and refine skills learned in THJ3E1 course.**

Prerequisite: Green Industries, Grade 11, Workplace Preparation

HAIRSTYLING AND AESTHETICS

Hairstyling and Aesthetics, Grade 10, Open

Code: TXJ201

This course presents hairstyling, make-up, and nail care techniques from a salon/spa perspective. Using materials, processes, and techniques used in the industry, students learn fundamental skills in hairstyling, giving manicures and facials, and providing hair/scalp analyses and treatments. Students will also consider related environmental and societal issues, and will explore secondary and post secondary pathways leading to careers in the field of hairstyling and aesthetics.

Prerequisite: None

Hairstyling and Aesthetics, Grade 11, Workplace Preparation

Code: TXJ3E1

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 will 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 will also consider environmental and societal issues related to the industry, and will acquire a more detailed knowledge of apprenticeships and direct-entry work positions.

Prerequisite: None

Hairstyling and Aesthetics, Grade 12, Workplace Preparation

Code: TXJ4E1

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 will strengthen their fundamental cosmetology skills and develop an understanding of common business practices and strategies in the salon/spa industry. Students will also expand their understanding of environmental and societal issues and their knowledge of postsecondary destinations in the hairstyling and aesthetics industry.

Prerequisite: Hairstyling and Aesthetics, Grade 11, Workplace Preparation

MANUFACTURING TECHNOLOGY

Manufacturing Technology, Grade 10, Open

Code: TMJ201

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.

Prerequisite: None

Manufacturing Technology, Part 1, Grade 11, Workplace Preparation

Code: TMJ3E1

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.

Prerequisite: None

Manufacturing Technology, Part 2, Grade 11, Workplace Preparation**Code: TMJ3E2**

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. **This course will allow students to practice and refine skills learned in TMJ3E course.**

Prerequisite: Manufacturing Technology, Part 1, Grade 11, Workplace Preparation. TMJ3E1 or TMJ3EF

Manufacturing Technology, Part 1, Grade 11, College Preparation**Code: TMJ3C1**

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.

Prerequisite: None

Manufacturing Technology, Grade 11, Part 2, College Preparation**Code: TMJ3C2**

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. **This course allows students an opportunity to further develop and refine skills acquired in TMJ3C1.**

Prerequisite: Manufacturing Technology, Part 1, Grade 11, College Preparation. TMJ3C 1

**Manufacturing Engineering Technology, Part 1, Grade 11,
University/College Preparation****Code: TMJ3M1**

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.

Prerequisite: None

**Manufacturing Engineering Technology, Part 2, Grade 11,
University/College Preparation****Code: TMJ3M2**

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. **This course allows students an opportunity to further develop and refine skills acquired in TMJ3M1.**

Prerequisite: Manufacturing Engineering Technology, Part 1, Grade 11. TMJ3M1

Manufacturing Technology, Part 1, Grade 12, Workplace Preparation**Code: TMJ4E1**

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. This course will allow students to practice and refine skills learned in TMJ3E course.

Prerequisite: Manufacturing Technology, Grade 11, Workplace Preparation TMJ3E

Manufacturing Technology, Part 2, Grade 12, Workplace Preparation**Code: TMJ4E2**

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. **This course will allow students to practice and refine skills learned in TMJ4E1 course.**

Prerequisite: Manufacturing Technology, Part 1, Grade 12, Workplace Preparation. TMJ4E1

**Manufacturing Engineering Technology, Part 1, Grade 12,
University/College Preparation****Code: TMJ4M1**

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: Manufacturing Engineering Technology, Grade 11, University/College Preparation

**Manufacturing Engineering Technology, Part 2, Grade 12,
University/College Preparation****Code: TMJ4M2**

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. **This course will allow students to further practice and refine skills gained in the single credit course.**

Prerequisite: Manufacturing Engineering Technology, Pt 1, Grade 12, University/College Preparation. TMJ4M1

Manufacturing Technology, Part 1, Grade 12, College Preparation**Code: TMJ4C1**

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: Manufacturing Technology, Grade 11, 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, and build upon the skills and knowledge learned in part 1.**

Prerequisite: Manufacturing Technology, Part 1, Grade 12, College Preparation. TMJ4C1

TECHNOLOGICAL DESIGN

Technological Design, Grade 10, Open

Code: TDJ2O1

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 post secondary education and training leading to careers in the field. **This course provides a practical approach to design and model making. Students will have the opportunity to investigate Autodesk software such as Autocad and Inventor. An opportunity to use a 3D printer will be available. Students will also learn how to use SoftPlan and Google SketchUp (3D modelling software for houses). A field trip to Victor Davis Pool to test cardboard boats is included.**

Prerequisite: None

Technological Design and the Environment, Grade 11, Open

Code: TDJ3O1

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 post secondary pathways leading to careers in the field. **This course provides a practical approach to design and model making. Students will have the opportunity to investigate Autodesk software such as Autocad and Inventor. An opportunity to use a 3D printer will be available. Students will also learn how to use SoftPlan and Google SketchUp (3D modelling software for houses). The final project involves building an architectural model.**

Prerequisite: None

Technological Design, Part 1, Grade 11, University/College

Code: TDJ3M1

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. **This course provides a practical approach to design and model making. Students will have the opportunity to investigate Autodesk software such as REVIT, Autocad and Inventor. An opportunity to use a 3D printer will be available. Students will also learn how to use SoftPlan and Google SketchUp (3D modelling software for houses). The final project involves building an architectural model.**

Prerequisite: None

Technological Design in the Twenty-first Century, Grade 12, Open**Code: TDJ401**

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 post secondary pathways leading to careers related to technological design. **This course provides a practical approach to design and model making for both mechanical and residential design. Students will have the opportunity to investigate Autodesk software such as REVIT, Autocad and Inventor. An opportunity to use a 3D printer will be available. Students will also learn how to use SoftPlan and Google SketchUp (3D modelling software for houses). The final project involves building an architectural model.**

Prerequisite: None**Technological Design, Part 1, Grade 12, University/College****Code: TDJ4M1**

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 post secondary education and training requirements for them. **This course provides a practical approach to design and model making for both mechanical and residential design. Students will have the opportunity to investigate Autodesk software such as REVIT, Autocad and Inventor. An opportunity to use a 3D printer will be available. Students will also learn how to use SoftPlan and Google SketchUp (3D modelling software for houses). The final project involves building an architectural model. Students will study Barrier-Free Design and will have an opportunity to experience life as a wheelchair-bound person.**

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

TRANSPORTATION TECHNOLOGY

Transportation Technology, Grade 10, Open**Code: TTJ201**

This course introduces students to the service and maintenance of vehicles, aircraft, and/or water craft. 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 post secondary pathways leading to careers in the transportation industry.

Prerequisite: None**Transportation Technology: Vehicle Ownership, Part 1, Grade 11, Open****Code: TTJ301**

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.

Prerequisite: None

Transportation Technology: Vehicle Ownership Part 2, Grade 11, Open,**Code: TTJ302**

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. **This course will allow students to practice and refine skills learned in TTJ301/F course.**

Prerequisite: Transportation Technology: Vehicle Ownership, Part 1, Grade 11, Open. TTJ301/F

Transportation Technology, Grade 11, College**Code: TTJ3CX**

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. **This course is open to female students only.**

Prerequisite: None

Transportation Technology, Part 1, Grade 11, College**Code: TTJ3C1**

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.

Prerequisite: None

Transportation Technology, Part 2, Grade 11, College**Code: TTJ3C2**

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. **This course will allow students to practice and refine skills learned in TTJ3C1 course.**

Prerequisite: Transportation Technology, Part 1, Grade 11, College. TTJ3C1

Transportation Technology, Part 1, Grade 12, College**Code: TTJ4C1**

This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; powertrains; 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: TTJ3C

Transportation Technology, Part 2, Grade 12, College**Code: TTJ4C2**

This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; powertrains; 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. **This course will allow students to practice and refine skills learned in TTJ4C1 course.**

Prerequisite: Transportation Technology, Part 1, Grade 12, College. TTJ4C1

Transportation Technology: Vehicle Maintenance, Part 1, Grade 12, Workplace**Code: TTJ4E1**

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.

Prerequisite: None**Transportation Technology: Vehicle Maintenance, Part 2, Grade 12, Workplace****Code: TTJ4E2**

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. This course will allow students to practice and refine skills learned in TTJ4E course. **This course will allow students to practice and refine skills learned in TTJ4E1 course.**

Prerequisite: TTJ4E1