

Graduation Requirements for Secondary School

Ontario Secondary School Diploma Requirements

The following requirements must be successfully completed in order to obtain an Ontario Secondary School Diploma (OSSD):

- ♦ 30 credits including 18 compulsory credits and 12 optional credits‡
- ♦ 40 hours of community involvement
- ♦ successful completion of the EQAO Ontario Secondary School Literacy Test (OSSLT) or the Ontario Secondary School Literacy Course (OSSLC)

Compulsory Credits

Students must earn the following 18 compulsory credits to obtain the Ontario Secondary School Diploma;

- ♦ 4 credits in English (1 credit per grade)†
- ♦ 3 credits in Mathematics (1 credit in Grade 11 or 12)
- ♦ 2 credits in Science
- ♦ 1 credit in Canadian History
- ♦ 1 credit in Canadian Geography
- ♦ 1 credit in the Arts
- ♦ 1 credit in Health and Physical Education
- ♦ 1 credit in French as a Second Language
- ♦ 0.5 credit in Career Studies
- ♦ 0.5 credit in Civics

Plus one credit from each of the following groups:

- ♦ **Group 1:** 1 additional credit in English, or French as a second language*, or a Native language, or a Classical or an International language, or Social Sciences and the Humanities, or Canadian and World Studies, or Guidance and Career Education, or Cooperative Education**
- ♦ **Group 2:** 1 additional credit in Health and Physical Education, or the Arts, or Business Studies, or French as a second language*, 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**

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

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

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

** A maximum of 2 credits in Cooperative Education can count as compulsory credits

Definition of a Credit: One “full” credit is defined as a minimum of 110 hours of instruction.

Optional Credits

In addition to the compulsory credits, 12 optional credits are required. Elective credits are selected by the student based on their individual interests and goals. Parents, counsellors, teachers, and administrators can help the student make their selection.

Ontario Secondary School Certificate

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

Compulsory Credits (total of 7)

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

Optional Credits (total of 7)

- ♦ 7 credits selected by the student from available courses

Certificate of Accomplishment

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

Graduation Requirements for Secondary School

Substitutions for Compulsory Credits

In order to allow flexibility in designing a student's program and to ensure that all students can qualify for the Ontario Secondary School Diploma, substitutions may be made for a limited number of compulsory credit courses using courses from the remaining courses offered by the school that meet the requirements for compulsory credits. To meet individual students' needs, principals may replace up to three 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.

Community Involvement

As part of the diploma requirements, students must make a positive contribution to the well-being of our community. The community involvement consists of student self-directed activities of at least 40 hours which must be completed before graduation. The activities must occur outside normal instructional hours.

The purpose of the community involvement is to promote community values by:

- ♦ helping students understand how they can make a positive difference in their environment
- ♦ having students demonstrate their integrity
- ♦ having students contribute to their community
- ♦ increasing student awareness of community needs
- ♦ discovering the role students can play in making their communities better places in which to live and work
- ♦ developing a positive self-image and a greater sense of identity in the community
- ♦ providing a possibility for exploring career opportunities

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.

Students are encouraged to visit the Guidance Office for further information about community involvement and the forms required for recording participation.



Ontario Secondary School Literacy Test (OSSLT)

The Ontario Ministry of Education has mandated that the Ontario Secondary School Literacy Test (OSSLT) be administered to grade 10 students province-wide to determine if they can successfully demonstrate the reading and writing skills that apply to all subject areas in the provincial curriculum up to the end of grade 9.

The OSSLT is administered annually in the spring and is 2.5 hours in length. The OSSLT is designed, and its implementation is supervised, by the Ontario Education and Accountability Office.

Receiving an Ontario Secondary School Diploma (OSSD) depends on passing the OSSLT. Students who are not successful on the test are able to attempt it again, in a future administration, or enroll in the Ontario Secondary School Literacy Course (OSSLC).

Student with special needs may be permitted accommodations provided they have an Individual Education Plan (IEP). Students whose IEP indicates that the student is not working towards the attainment of a Ontario Secondary School Diploma may, with parental consent and the approval of the principal, be exempted from participating in the OSSLT.

Ontario Secondary School Literacy Course (OSSLC)

Students who have written the Ontario Secondary School Literacy Test at least once and have not been successful may take the Ontario Secondary School Literacy Course (OSSLC). Upon successful completion of the course, a student is deemed to have met the literacy requirements necessary to achieve an OSSD.

Use the following chart to plan your course selection for obtaining your OSSD:

Subject	Year	1 Grade 9	2 Grade 10	3 Grade 11	4 Grade 12	Additional
1		English	English	English	English	
2		Mathematics	Mathematics	Mathematics		
3		Science	Science			
4		Canadian Geography	Canadian History			
5		French	Civics/ Career Studies			
6		Physical Education*				
7		Arts *				
8						

What Do You Need to Graduate?

* Optional but often recommended in grade 9

Checklist

18 Compulsory Credits

- 4 English* ☐ ☐ ☐ ☐
- 3 Mathematics ☐ ☐ ☐
- 2 Science ☐ ☐
- 1 Canadian Geography ☐
- 1 Canadian History ☐
- 1 Health and Physical Education ☐
- 1 The Arts ☐
- 1 French as a Second Language ☐
- .5 Career Studies ☐
- .5 Civics ☐

1 Credit From each of the following groups:

☐ Group 1

Additional credit in English, or French as a second language, or a Native language, or a Classical or an International language, or Social Sciences and the Humanities, or Canadian and World Studies, or Guidance and Career Education, or Cooperative Education

☐ Group 2

Additional credit in Health and Physical Education, or the Arts, or Business Studies, or French as a Second Language, or Cooperative Education

☐ Group 3

Additional credit in Science (Grade 11 or 12), or Technological Education, or French as a Second Language, or Computer Studies, or Cooperative Education

12 Optional Credits

- ☐ ☐ ☐ ☐ ☐ ☐
- ☐ ☐ ☐ ☐ ☐ ☐

- ☐ 40 Community Involvement Hours
- ☐ Successful completion of the provincial literacy requirement OSSLT or OSSLC

Note:

- ♦ A maximum of three credits in ESL or ELD may be counted towards the four compulsory credits in English but the fourth must be a credit earned for a grade 12 compulsory English course.
- ♦ A maximum of two credits in Cooperative Education can count as compulsory credits.
- ♦ Optional credits may include up to four credits achieved through approved Dual Credit courses.
- ♦ In groups 1, 2, and 3, a maximum of 2 credits in French as a Second Language can count as compulsory credits, one from group 1 and one from either group 2 or group 3.

Understanding Courses and Codes

Course Coding System

Courses are identified by 3 letters followed by a number and a letter.

For example: ENG 1 D

English Grade (Gr. 9) Academic Stream

The **first three characters** (ENG) indicate the subject course code as prescribed by the Ministry of Education Common Course Codes.

The **fourth character** in the code indicates the grade level of the course:

- 1 = Grade 9
- 2 = Grade 10
- 3 = Grade 11
- 4 = Grade 12

For courses in ESL, (English as a Second Language), classical/international languages, and Native languages only, it indicates the level of a course, as follows:

- A = Level 1
- B = Level 2
- C = Level 3
- D = Level 4
- E = Level 5

The **fifth character** indicates the type of course or the stream:

- | | |
|---------------|---------------------------------------|
| Grade 9 – 10 | D = Academic |
| | P = Applied |
| | L = Locally Developed |
| | O = Open |
| Grade 11 - 12 | C = College Destination |
| | M = College or University Destination |
| | U = University Destination |
| | E = Workplace Destination |

A sixth character is added for school use.

Course codes beginning with "K" indicate courses consisting of alternative expectations, which do not lead to credits. These codes are structured somewhat differently: the fourth character indicates the year of attendance in secondary school (A for the first year, B for the second, etc.); and the fifth character, N, indicates a non-credit course.

Definitions

Courses

Courses are available in many subject areas in secondary school. Within a subject area, students can further specialize their course studies depending on their interests.

Credits

A credit is granted when a course that has been scheduled for a minimum of 110 hours is successfully completed. "Scheduled time" is defined as the time during which students participate in planned learning activities designed to lead to the achievement of the curriculum expectations of the course. Planned learning activities include interaction between the teacher and student as well as assigned individual and/or group work, excluding homework. Half or partial credits may be offered for some courses and the amount of classroom instruction will relate accordingly (e.g., a half credit equals 55 hours).

Prerequisites

Prerequisite courses are courses that contain prior knowledge in a specific subject area which must be obtained before entering courses at a later grade level.

Types of Courses – Grades 9 and 10

Grade 9 and 10 courses are organized into four types: Academic, Applied, Locally Developed and Open.

Academic and Applied courses differ in the balance between essential concepts and additional requirements and in the balance between theory and application. They differ primarily, not in the level of skill required, but in the kinds of problems presented and the application of the content and concepts.

Academic Courses

Courses with a D in the fifth position focus on the essential concepts of the discipline and also explore related concepts. Course work develops students' knowledge and skills by emphasizing theoretical and abstract applications of the essential concepts and incorporating practical applications as appropriate. The emphasis is on theory and abstract thinking as a basis for further learning and problem solving.

Understanding Courses and Codes

Applied Courses

Courses with a P in the fifth position focus on the essential concepts of the discipline. Course work develops students' knowledge and skills by emphasizing practical, concrete application of these concepts and incorporating theoretical applications as appropriate. Course work relates to familiar real-life situations and provides students with the opportunity for extensive hands-on applications of the concepts they study.

Locally Developed Courses

Courses with an L in the fifth position focus on the skills and knowledge required to be successful in the workplace. There are six locally developed courses that count towards compulsory credits. They are: ENG1L1, ENG2L1, MAT1L1, MAT2L1, SNC1L1, and CHC2L1.

Open Courses

Courses with an O in the fifth position have one set of expectations for the subject, appropriate for all students in a given grade. These courses are designed to provide students with a broad educational base that will prepare them for their studies in grades 11 and 12 and for productive participation in society.

Students in Grades 9 and 10 will make the choice between academic and applied courses primarily on the basis of their strengths, interests, and needs. Their parents and teachers, including their teacher-adviser, will help them make their choices, which will be reflected in their annual education plan. The selection of courses for exceptional students should also be guided by information in the student's Individual Education Plan.

NOTE: Students who are successful in any academic or applied course in Grade 9 will be able to proceed to either the academic or the applied stream in the same subject in Grade 10. When a student plans to switch from one course type in Grade 9 to the other in Grade 10, the principal must inform the student and his or her parents that the student should be strongly encouraged to successfully complete additional course work, as defined by the ministry, of up to 30 hours, in order to demonstrate achievement of the learning expectations that are included in the one Grade 9 course but not the other. This additional course work will be referred to as *crossover* material. Grade 10 academic and applied courses will prepare students for particular Grade 11 courses, for which prerequisites are specified in the curriculum policy documents for Grades 11 and 12.

Types of Courses – Grades 11 and 12

Grade 11 and 12 courses are organized into five types based on students' future destinations. Students may choose from University Preparation, University/College Preparation, College Preparation, Workplace Preparation, or Open courses.

University Preparation Courses

Courses with a U in the fifth position provide students with the knowledge and skills needed to meet entrance requirements for university programs. Teaching and learning will emphasize theoretical aspects of the course content with supporting applications. The courses will focus on the development of both independent research skills and independent learning skills.

University/College Preparation Courses

Courses with an M in the fifth position include content that is relevant for both university and college. They provide students with the knowledge and skills they need to meet the entrance requirements for specific university and college programs. The range of courses offered and their content will allow students to prepare for college and university programs and related careers. Teaching and learning will emphasize both theoretical aspects and related concrete application of the course content.

College Preparation Courses

Courses with a C in the fifth position provide students with the knowledge and skills to meet entrance requirements for most college programs and related careers. Teaching and learning will emphasize concrete applications of the theoretical material covered in the course and the development of critical thinking and problem-solving skills. Courses will focus on the development of independent research and learning skills.

Workplace Preparation Courses

Courses with an E in the fifth position prepare students to move directly into the workplace or to apprenticeship programs and other training programs in the community. These courses emphasize practical workplace skills.

Open Courses

Courses with an O in the fifth position allow students to broaden their knowledge and skills in a particular subject that may or may not be directly related to their post secondary goals but that reflects their interests. These courses are appropriate for all students regardless of post secondary destination.

General Information for All Students

Ontario Student Transcript (OST)

The Ontario Student Transcript will include:

- ♦ for grade 9 and 10 courses, the student's achievement with percentage grades for successfully completed courses only
- ♦ for grade 11 and 12 courses, all courses taken or attempted, percentage grades earned, and credits gained. If a student withdraws from a grade 11 or 12 course within five instructional days following the issue of the first provincial report card, the withdrawal is not recorded on the OST.

Courses are entered on the transcript using common course code designations issued by the Ministry of Education.

Students and parents may access the OST by contacting the principal or Guidance Department.

Semestered Format

In semestered schools the school year is divided into two semesters and four terms. Students study up to four courses in the first half of the school year (Semester 1, Terms 1 and 2 – September to January) and a different four courses in the second half (Semester 2, Terms 3 and 4 – February to June). Reporting occurs two times per semester with a midterm report card and a final report card at the end of the semester.

Course Cancellation

Courses may be cancelled because of insufficient enrolment and staffing considerations or closed due to class size. Should a cancellation occur, students will be notified and asked to select an alternate course or an alternate course selected on the option sheet will be substituted.

Course Changes

Requests to change a program during the academic year will be considered only for a valid reason. The school may consider a timetable change request for reasons involving:

- ♦ a change in level of difficulty
- ♦ a timetable error
- ♦ summer school results
- ♦ a change in career plans
- ♦ post secondary education admission requirements
- ♦ medical matters

Course Load

All students with less than 23 credits are expected to take 4 subjects in each semester. Students with less than 23 credits will be placed in a supervised study period during any unscheduled period. Students with 23 or more credits must take a course load of at least 7 out of 8. All requests for a supervised study must be approved by the principal.

Ontario Student Record

The Ontario Student Record (OSR) is the ongoing, confidential record of a student's educational progress through schools in Ontario. The collection of this information is authorized by the Education Act.

An OSR is established for each student who enrolls in an elementary or secondary school that is operated by a public or separate school board in Ontario. School boards are responsible for ensuring compliance with Ministry of Education policies on the OSR.

A student's OSR is filed in the office at the student's school. If a student transfers to another school in Ontario, his or her OSR folder and all its contents are usually transferred to the new school.

The information in an OSR is available to supervisory officers and the principal and teachers or the school only for the purpose of improving the instruction of the student.

An OSR consists of the OSR folder, various supporting documents and other information that are kept in the folder, and an office index card.

All students and the parents or guardians of students under 18 years of age have the right to examine the OSR and to receive a copy of its contents, if they so desire.



Assessment and Evaluation of Students

We believe that assessment and evaluation should:

- be the driving force of the curriculum we teach
- be an essential part of all teaching and learning experiences
- be fair and equitable
- foster feelings of accomplishment and self-worth in all students
- provide information to students, parents and teachers about student progress

Assessment and evaluation are essential to the learning process and it is important to include all of the key people in this process. Assessment and evaluation may be conducted by:

- teacher
- student
- peers
- education assistants

The procedures for evaluating student achievement vary from course to course to meet the requirements of different subjects, different course types, and different learning environments. Teachers provide students with specific, written evaluation procedures at the beginning of each course.

Reporting Student Achievement

The Provincial Report Card for Grades 9 -12 will be the formal instrument used to communicate student achievement and the Ontario Student Transcript provides the record of a student's standing with regard to the secondary school diploma requirements. A progress report is sent home early in each semester and an official report card is sent home twice during each semester. A credit endangerment letter is issued approximately 5 weeks prior to exams each semester.

Prior Learning Assessment and Recognition (PLAR)

Prior learning includes the knowledge and skills that students have acquired, in both formal and informal ways, outside secondary school. This formal evaluation and accreditation process is known as Prior Learning Assessment and Recognition (PLAR).

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

Determining equivalency involves the assessment of credentials from other jurisdictions.

PLAR has a specific, limited function in the Ontario secondary school program. For students who are under the age of eighteen, or who are eighteen or over but have never left high school for a year or more, a maximum of four credits may be granted through the challenge process for Grade 10, 11, and 12 courses, with no more than two in one subject area. Students may challenge course when they have been in place for at least one year.

The challenge and equivalency procedures are also available to mature students – that is, students who are eighteen years of age or over (i.e., adults) who are returning to school to earn a diploma after being out of high school for at least one year – but requirements concerning application of these procedures differ for this group because of their broader life experience. Principals will determine the number of credits, including compulsory credits that a mature student needs in order to meet diploma credit requirements. Up to 16 Grade 9 and 10 credits may be granted to a mature student at the discretion of the principal following individual assessment.

Mature students may earn 10 of the 14 remaining Grade 11 and 12 credits needed to meet diploma requirements in three ways:

- they may demonstrate achievement of the required secondary school curriculum expectations and receive a credit through the challenge process;
- they may present education and/or training credentials for assessment through the equivalency process; or
- they may take the course.

Mature students will earn a minimum of 4 Grade 11 and 12 credits by taking the course at a secondary school, through correspondence, or through any of the alternative ways described below.

Mature students working towards the OSSD under OSS must also satisfy the diploma requirements with regard to the provincial secondary school literacy test. Principals will determine the number of hours of community involvement activities that a mature student will have to complete.

Policy and Procedure for PLAR are available on the KPRSDB website, www.kprdsb.ca under Board Policies, Policy ES-3.12 PLAR.

EQAO Grade 9 Assessment of Mathematics

The EQAO Grade 9 Assessment of Mathematics is conducted each year. All students enrolled in grade 9 Mathematics, Applied or Academic, write the assessment in January and June for semestered schools. The purpose is to identify strengths and areas for improvement in student learning. This assessment is not a diploma requirement.

The EQAO has established policies and guidelines for providing special provisions for students enrolled in ESL/ELD programs and accommodations for students with special needs for whom there is an Individual Education Plan (IEP). Students with special needs and ESL/ELD students may be exempt from participating in the assessment where it is determined that accommodations or special provisions still would not enable the students to provide evidence of learning.

N.D.H.S. Code of Behaviour

This is a shortened version of the Norwood District High School Code of Conduct. Full copies are available in the main office and on the school website www.ndhs.ca.

- ♦ students must be allowed to learn;
- ♦ teachers must be allowed to teach;
- ♦ physical, verbal (oral or written), sexual or psychological abuse, bullying, or discrimination on the basis of race, culture, religion, gender, language, sexual orientation, or any other personal attribute is not permitted;
- ♦ damage to property in the school environment (including school grounds, school buses, on school excursions) is not permitted;
- ♦ students will remove their hats for the National anthem or at the request of a teacher;
- ♦ inappropriate language, racial slurs, derogatory comments or harassment will not be tolerated. (The Norwood District High School policy on inappropriate language follows the Kawartha Pine Ridge D.S.B.'s Safe Schools policy which states unequivocally that physical, verbal (oral or written), sexual or psychological abuse, such as, but not limited to sarcasm, ridicule, humiliation, bullying or discrimination, based on race, gender, ethnicity, language, disability, sexual orientation or any other personal attribute is unacceptable);
- ♦ students are expected to dress in neat, clean, modest attire, appropriate for school atmosphere. In general, the standard for school attire should be comparable to that set for the business community. Clothing that exposes undergarments will be considered inappropriate for a school environment.

Generally, the top of the pants and bottom of the top should meet. Students who arrive inappropriately dressed will be asked to change or to make arrangements to facilitate a change, and parents will be contacted;

- ♦ students will refrain from wearing to school any article of clothing carrying a slogan pertaining to: degradation of religion or race, sexual innuendo, obscene words or images, hate messages, promotion of intoxication or drugs. Student attire may not promote hatred to any group or organization or display recognized hate symbols;
- ♦ known gang attire will not be permitted at Norwood D.H.S. Bandannas have been associated with gang involvement. The wearing of bandannas of any colour is prohibited by male and female students as well as chains, spiked collars and wrist bands;
- ♦ students will ensure all electronic devices such as cell phones do not disrupt the learning environment by turning them off when in class;
- ♦ laser pointers, and two-way personal communication devices will not be permitted at N.D.H.S.
- ♦ fighting will result in immediate suspension;
- ♦ students are not to bring weapons (knives, replica handguns, or actual firearms) on the property. Students with weapons will be immediately suspended and the police will be notified.

NOTE: The principal may also apply these rules to a pupil when the pupil's conduct outside the school environment negatively impacts on the school.



Guidance and Counselling Services

The Guidance Department at NDHS provides assistance to students in the four areas of personal, social, education and vocational guidance. Through the guidance program, students are given opportunities to acquire the skills, knowledge and attitudes necessary to:

- ♦ know and appreciate themselves
- ♦ relate effectively to others
- ♦ develop appropriate educational plans
- ♦ explore career alternatives

The ultimate goal is that students may be able to assume responsibility for making their own decisions based on accurate information.

The Guidance Department supports students in the following areas:

Educational Counselling

- ♦ appropriate high school course choices and resolution of timetable conflicts
- ♦ difficulties in learning, studying, or time management
- ♦ educational plans appropriate to abilities, interests, and goals
- ♦ college or university contacts and the post-secondary application process
- ♦ financial assistance for post-secondary education through Ontario Student Assistance Program (OSAP), scholarships, etc.

Career Counselling

- ♦ explore potential career options
- ♦ determine suitability for various vocations using a variety of resources
- ♦ find sources of information on careers
- ♦ use programs such as Co-op and the Ontario Youth Apprenticeship Program (OYAP) to further their first-hand knowledge of the world of work
- ♦ assist in locating part-time/full-time or summer work
- ♦ additional learning opportunities after high school

Personal Counselling

- ♦ transition from elementary to secondary school, from secondary to post-secondary and from school to employment
- ♦ discuss the student and their relationships to others
- ♦ deal with any personal concerns and explore alternatives and/or solutions
- ♦ offer community resources where needed
- ♦ coordinate referrals to KPRDSB Support Personnel and school support agencies.

School Support Agencies

The school program at Norwood District High School is supported by a number of community and board departments and services. These supports include board consultants, counsellors, social workers and attendance counselors, psychological services, O.P.P., Children's Aid, FourCAST, Peterborough Youth Services and the Resource Centre.

Student Success Team

Norwood District High School has a Student Success Team made up of the Principal, Vice-Principal, Student Success Teacher, Head of Guidance & Career Education, the board counselor and the Head of Special Education. This team helps identify and support struggling students, provides options for learning, and mentors student progress.

Special Education Programs and Services

Norwood District High School believes that all students can learn. The school system and its educational programs are organized to ensure optimal academic and social growth for all students. Some students because of behavioural, communicational, intellectual or physical needs may be identified as exceptional and are, provided with Special Education programs and/or services.

How the Department Works:

Resource Room (PLC)

In collaboration with the class room teachers, the Resource Room offers an alternative work location for students to access after the daily lesson.

Students with an IEP may, with teacher approval, access this quiet setting for independent work, individual or small group instruction, computers, and the use of assistive technology.

Daily visit to the Resource Room typically range between 30-40 students.

Resource Teachers

Each student with an IEP is assigned a Resource Teacher who is responsible for being an in-school advocate and resource to the individual, his/her parents/guardians, and classroom teachers.

Resource Teachers monitor student success and provide support to allow students to succeed within the regular classroom.

Parents/Guardians are encouraged to contact the Resource Teacher to discuss concerns as students make adjustments to the expectations of the secondary school system.

The Special Education Resource Teachers will assist classroom teachers with resources, strategies, and accommodations.

Learning and Life Skills Classes

Norwood DHS has 1 LLSP classroom that provides programs for students with developmental challenges. This class provides opportunities with the school's regular program, while focusing on academic, life and personal functioning skills, in order to maximize independence.

Identification Placement Review Committee (IPRC)

The Identification Placement Review Committee is the process of identifying a student as exceptional as per the Ministry definitions and determining the placement and program that would best meet the needs of the student.

Special Education Advisory Committee (SEAC)

The Special Education Advisory Committee is a legislated standing committee of the Board. The community representatives are nominated by their association and their appointment is approved by the Board. It is the role of the Special Education Advisory Committee to report and make recommendations to the Board regarding any matter effecting the establishment and development of special education programs and services for exceptional students.

Individual Education Plan (IEP)

Every student who has been identified as exceptional by IPRC will have an Individual Education Plan developed. Students who have not been identified as exceptional but require accommodations and/or modifications may also have an IEP developed. An IEP describes the accommodations for instruction, environment and/or assessment that are necessary for the student to achieve and demonstrate learning. It also outlines the specific learning expectations when a student's program is modified. This includes the teaching and assessment strategies that best meet the student's needs. In certain circumstance the IEP may also outline specific learning expectations that are alternative to the provincial curriculum.

Specialized Programs

Cooperative Education Program

Planned learning experiences that take place in the community, including, job shadowing and job twinning, work experience and virtual work experience, and cooperative education, provide students who are enrolled in courses of all types and in all disciplines with the opportunity to enhance their school programs. Experiential learning can assist all students, including exceptional students, who are bound for university, college, apprenticeship, or the workplace, in making career decisions as well as in developing the knowledge, skills, and attitudes that are essential in today's society. All forms of experiential learning are a valuable complement to students' academic experience and preparation for the future. When organized in a sequential fashion that meets career development needs, experiential learning can maximize student growth and development, and should be encouraged.

Cooperative Education is a program integrating classroom theory with workplace experience. The program is a partnership of school and business/industry, involving students, teachers and employers.

Cooperative Education gives reality and relevance to education. It bridges the gap between classroom study and the practical experience a student needs to know to become a productive member of society.

Students normally undertake a half-day Cooperative Education program. Time is divided between the school and the workplace. Students complete 220 hours of job and at-school activities for two credits which apply towards their O.S.S.D.

What are the Benefits of Cooperative Education?

You can benefit from Cooperative Education in many ways.

It will give you an opportunity to:

- ♦ explore career choices
- ♦ gain valuable work experience
- ♦ strengthen employment skills through on-the-job training
- ♦ improve your qualifications for future employment
- ♦ experience employment-related situations
- ♦ use equipment not available in the school
- ♦ make a smoother transition from school to work or post-secondary education
- ♦ obtain employment references
- ♦ discover personal interests and abilities
- ♦ develop confidence and self-reliance
- ♦ earn secondary school credits while gaining practical experience.

What Cooperative Education Courses are Offered?

Cooperative Education is a method of learning tied to most senior division subjects. Norwood District High School offers a wide selection of Co-op Education opportunities in a variety of subject areas and at all levels of difficulty.

Are You Interested?

If you wish to become a part of this rapidly growing program, contact someone in the Cooperative Education Department or the Head of Guidance.

Work Experience

Senior students may be recommended by their teachers for 1 or 2 weeks of work experience in a related subject area. Work experience provides the student with an opportunity to explore an industry or career. Students will be responsible for completing school work missed while on work experience.

Youth Apprenticeship Program

Students are able to earn apprenticeship hours in the workplace while working towards an O.S.S.D. Ideally, planning for involvement in this program should be in Year 2 since compulsory credits must be earned prior to committing to the program. Students will earn up to 6 cooperative education credits during grade 11 and 12. Students will be registered as apprentices sponsored by the employer.

Job Shadow

A job shadow activity allows a student to explore a specific occupation with a designated supervisor on a job site. These occupations are usually closely related to students' career aspirations. The student accompanies and observes the assigned person for one or two days in a typical work place and has the opportunity to observe all tasks involved in that occupation. The student will gather information concerning activities on job entry requirements, job description and seek advice on subjects to study in preparation for a career. Students will be responsible for completing a questionnaire concerning their career exploration.

Take a Student to Work

"Take a Student to Work" will offer each grade 9 student an opportunity to attend a work site with a parent, friend or relative. One day will be set aside in the fall for all grade 9 students to participate in this program. "Take a Student to Work" allows a young person to experience the environment of a "real life" work situation under the supervision of a parent, friend or relative. The student is required to complete assignments related to their job experience.

Ontario Youth Apprenticeship Program (OYAP)

This program allows Ontario secondary school students to fast track into the trade of their choice. Two types of OYAP Programs are available.

1. The first program consists of a unique combination of community college trades training and a high school Cooperative Education program. Students are registered as apprentices and attend the college one to three days a week to earn their Basic Part 1 of their trade qualifications. The remainder of the week is spent at a work placement with an employer earning two to three high school credits while accumulating hours toward their apprenticeship requirements. This full day program usually takes place during the second semester.

Positions in this program are only available to students who are in their Grade 12 year and eligible to graduate. Candidates demonstrating success in the recommended Math, Science, English and Technological Studies will be interviewed by a panel from both education and industry to gain entrance into the program.

Successful candidates will require registration in a two or three credit Cooperative Education program and two Dual Credits during second semester. A related Cooperative Education placement, during grade 11, is highly recommended. A transportation allowance will be available to subsidize the cost of attending the College Program. The cost of College training is absorbed by the Ministry of Training, Colleges and Universities. **NOTE: OYAP Level 1 program students will receive Dual Credits along with their Coop Credits.**

2. A second form of OYAP participation is also available to any Cooperative Education student, with a placement in an Apprenticeship Trade, who is at least 16 years of age and has 16 credits. These OYAP students will not complete their trade's Basic Part 1 course at a Community College. Instead Student Learning Plans are developed for them based on the training standards for the trade. Students can be registered as apprentices and the competencies achieved through the Coop placement are recognized toward their apprenticeship. The student will potentially earn between two and four secondary credits. An OYAP student in this program can participate in any of more than 150 recognized trades.

Contact your Guidance, Tech or Cooperative Education teacher for more information.

Duke of Edinburgh Award Programme

N.D.H.S. is proud to offer the Duke of Edinburgh's Award Programme to its students. As a host of the award, N.D.H.S. provides a framework for students to receive international recognition for their involvement in physical recreation, skill development, community service, and expeditions.

The Duke of Edinburgh's Award is a voluntary, non-competitive programme of practical, cultural and adventurous activities, designed to support the personal and social development of young people aged 14-25, regardless of gender, background or ability. It offers an individual challenge and encourages young people to undertake exciting, constructive, challenging and enjoyable activities in their free time. All Awards must be completed by the participant's 25th birthday. The Award Programme started in 1956 and its Founder and Patron is His Royal Highness the Duke of Edinburgh.

Through N.D.H.S., the programme can tap into virtually every extra-curricular event in the school and community. It also includes "Duke-specific" opportunities such as Cooking, Modeling, Policing 101, Antique Boat Restoration, Hiking, and Canoeing. Students are often already involved in many qualifying activities, but joining the programme allows them to focus their goals and receive significant recognition for their efforts.

The programme continues to evolve over time, with new skills and activities being added as opportunities arise. Plans are currently underway for students to participate in an international development trip as part of their gold level award. As the first school in the area to offer the Duke of Edinburgh Awards Programme, our participants are on the leading edge in their pursuit of prestigious bronze, silver, and gold awards.

For more information, visit www.dilpfed.org/on, or contact the school.

Do the Duke!



Specialized High Skills Major (SHSM)

What is a Specialist High Skills Major (SHSM)?

Specialized High Skills Major is a ministry-approved specialized program that allows students to focus their learning on a specific economic sector while meeting the requirements for the Ontario Secondary School Diploma (OSSD). The SHSM also assists students in their transition from secondary school to apprenticeship training, college, university, or the workplace.

N.D.H.S. is pleased to offer Specialist High Skills Majors in Construction, Manufacturing and Health & Wellness.

Benefits to Students

- ♦ Successful completion of an SHSM is indicated on the student's Ontario Secondary School Diploma (OSSD) by a red seal.
- ♦ Successful completion of an SHSM is indicated on the student's Ontario Student Transcript (OST), where it may be seen by any post secondary institution, employer or training organization.
- ♦ Students receive an SHSM Record that documents their achievement of the required components, including sector-related certifications earned and/or training courses completed.
- ♦ Students gain valuable experience and certifications, which increase confidence in their ability to succeed and see the connections between their studies, the world beyond high school and future careers.
- ♦ Students have the opportunity to explore, identify and refine career goals and make informed decisions related to post secondary education or training and next steps towards a career.



What is Required?

Every SHSM must include the following five components:

- ♦ a specific bundle of 8-10 credits of Grade 11 and 12 credits including Contextualized Learning Activities (CLAs)
- ♦ sector-recognized certifications and/or training courses
- ♦ experiential learning activities within the sector
- ♦ "reach ahead" experiences connected with the student's chosen post secondary pathway
- ♦ development of key essential skills and work habits required in the sector, and the use of the Ontario Skills Passport (OSP) for purposes of documentation.

Bundled Credits

The bundle of 8-10 credits must include:

- ♦ four major credits that provide sector-specific knowledge and skills
- ♦ two to four other required credits from the Ontario curriculum, in which some expectations are met through learning activities contextualized to the sector
- ♦ two cooperative education credits that provide learning experiences in an authentic workplace setting.

Contextualized Learning Activities (CLA)

For the "other required credit" in the bundle of credits, students in a SHSM program will complete learning activities that are based on the knowledge and skills relevant to the economic sector of their chosen SHSM. Contextualized learning activities address curriculum expectations in these courses.

Sector-Recognized Certifications and/or Training Courses

All students will receive certification and/or training in the following:

- ♦ WHMIS (Workplace Hazardous Materials Information System)
- ♦ CPR (Cardio-Pulmonary Resuscitation)
- ♦ Standard First Aid.

In addition, students will receive at least three more sector-specific certifications and/or training.

For example:

- ♦ Geographic Information System (GIS)
- ♦ CWB welding
- ♦ fall protection
- ♦ elevated work platforms
- ♦ safe food handling
- ♦ Smart Serve.

See requirement charts in course descriptions for more information.

Dual Credit Programs

At N.D.H.S. we offer dual credit opportunities with Fleming College in the Manufacturing program. This is a program in which senior students can earn both secondary school and college credits simultaneously. This program always involves a teacher from the secondary school and teachers from the college programs.



eLearning - Get the Courses You Need Online

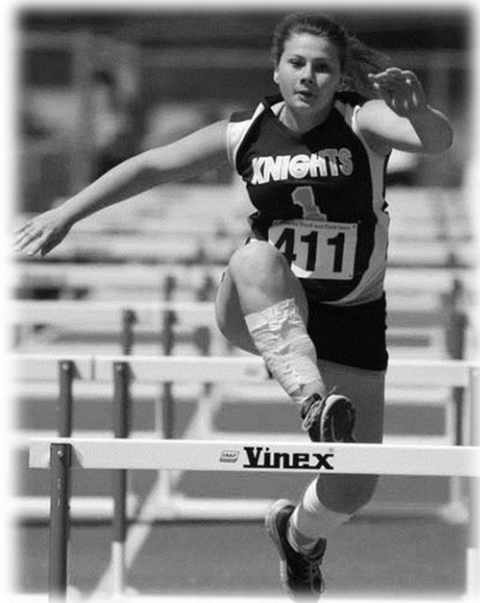
Do you have a specific course in mind, but cannot select it because the course is not offered in your school, is full, or will not fit into your timetable? Do you need an alternative setting? Perhaps taking an eLearning course is an answer to your concerns... many students across the province are making this choice. Many feel that being able to access courses anytime, anywhere is a great advantage for them.

If you are a self-motivated learner, with good time management skills, work well independently and are comfortable learning in a computer environment consider this...

eLearning is an option that allows you to select from over 100 Ontario secondary courses that you can complete in a virtual classroom on line. If you choose to take an online course you will work with a certified Ontario teacher, access course material, interact with classmates and complete your assignments and activities through the digital technology of your computer or electronic device.

Please visit your school guidance counsellor to discover which eLearning courses are available from Kawartha Pine Ridge District School Board and its partner boards, discuss your eligibility, and the appropriateness of online delivery for you.

The list of courses offered by Kawartha Pine Ridge District School Board will be made available on the board website @ <http://www.kprschoools.ca> early this winter. The courses are very popular, and are filled on a first served basis.



Extracurricular Activities



KNIGHT LIFE

Norwood District High School provides students with a wide range of extra-curricular activities that encourage leadership, positive self-esteem and lead to a sense of belonging to the school community. By getting involved students develop a sense of pride in themselves and their school.

Clubs

- ♦ Student Council
- ♦ Assembly Committee
- ♦ Duke of Edinburgh
- ♦ Prom Committee
- ♦ Red Coat Drill Team
- ♦ War Amp Tractor Parade
- ♦ Anti-Bullying Campaign
- ♦ Java Fest Talent Evening
- ♦ Students Helping Seniors
- ♦ Knights for Inclusion
- ♦ Musical
- ♦ Guitar Club
- ♦ Breakfast Club
- ♦ The Guild
- ♦ Equine Program
- ♦ Terry Fox Run
- ♦ Drama Club



Sports

Girls

- ♦ Basketball
- ♦ Hockey
- ♦ Volleyball
- ♦ Softball
- ♦ Soccer

Boys

- ♦ Football
- ♦ Hockey
- ♦ Basketball
- ♦ Baseball

Coed

- ♦ Golf
- ♦ Wrestling
- ♦ Track & Field
- ♦ Badminton
- ♦ Archery

Late Busses are available 4 nights per week for students who would like to participate in extracurricular activities but still require transportation after hours. Bus leaves at 5:30 p.m.



GRADE 9 COURSES

ARTS

Integrated Arts

ALC 1O1 Integrated Arts – Open 1 credit

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

Music

AMG 1O1 Guitar – Open 1 credit

This course is designed as an introduction to playing the guitar. Students are not expected to have any previous experience. This course is designed to teach all the fundamentals of guitar playing including: proper handling and care for the guitar, tuning the guitar, how to read tablature, chord charts, and basic chord symbols, how to play basic open position chords, strumming and accompanying techniques, finger picking techniques (including alternate picking), 12 bar blues, pop song forms.

BUSINESS

Business

BTT 1O1 Business – Open 1 credit

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.

CANADIAN AND WORLD STUDIES

Geography

CGC 1D1 Issues in Canadian Geography 1 credit
- Academic

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.

CGC 1P1 Issues in Canadian Geography 1 credit
- Applied

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.



ENGLISH

ENG 1D1 English – Academic 1 credit

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 analyze 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.

ENG 1P1 English – Applied 1 credit

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

ENG 1L English – Locally Developed 1 credit

This course emphasizes the key reading, writing, oral communication and thinking skills students needed for success in secondary school and in their daily lives. In particular, the program works towards preparing students to enter the Grade 10 locally developed English course, and to complete the literacy test successfully. Students read a variety of narrative and expository forms, poetry, and drama and practice the skills necessary for clear and accurate spoken and written language. In particular, course activities will help develop confidence and self-esteem and provide motivation to succeed in school and life.

FRENCH

FSF 1D1 Core French – Academic 1 credit

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*

FSF 1P1 Core French – Open 1 credit

This is an introductory course for students who have little or no knowledge of French or who have not accumulated the minimum of 600 hours of elementary Core French instruction. Students will begin to understand and speak French in guided and structured interactive settings, and will develop fundamental communication skills through discussing situations and issues that are relevant to their daily lives. Throughout the course, students will develop their awareness of diverse French-speaking communities in Canada and acquire an understanding and appreciation of these communities. They will also develop a variety of skills necessary to become life-long language learners.

GUIDANCE AND CAREER EDUCATION

GLE 1O1 Learning Strategies 1: Skills for Success in Secondary School - Open 1 credit

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.

HEALTHY ACTIVE LIVING

Healthy Active Living Education

PPL 1OB/G Healthy Active Living 1 credit
Education – Open

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy 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 goal-setting, communication and social skills.

Hockey Canada Skills Academy



PAL 1O1 Hockey Skills Canada 1 credit
Academy – Open

This is a highly intense, ice hockey skills program has the following aims:

- ♦ to improve the ice hockey skill level of the students, while complimenting their continued involvement in minor hockey within their home community.
- ♦ to provide students with on-ice hockey skill sessions and off-ice hockey skill sessions
- ♦ to analyse the role of individual responsibility in enhancing personal health and analyse the social factors that influence personal health.

Cost is \$300.00 / year subject to change. Financial assistance is available.



MATHEMATICS

MPM 1D1 Principles of Mathematics 1 credit
- Academic

This course enables students to develop understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and abstract reasoning. Students will apply data-management techniques to investigate relationships between two variables, and connect various representations of a linear relation. Students will determine through investigation the properties of the slope, the relationship between the form of the equation and the shape of its graph. They will also explore relationships that emerge from the measurement of three-dimensional objects and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

MFM 1P1 Foundations of Mathematics 1 credit
- Applied

This course enables students to develop understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples using data-management techniques 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 in the context of realistic situations and communicate their thinking.

MAT 1L1 Mathematics - 1 credit
Locally Developed

This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in the Grade 10 MAT2L course, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to further develop their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

SCIENCE

SNC 1D1 Science – Academic 1 credit

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.

SNC 1P1 Science – Applied 1 credit

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.

SNC 1L1 Science - Locally Developed 1 credit

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

SOCIAL SCIENCES & HUMANITIES

HIF 101 Exploring Family Studies 1 credit
- Open

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.

TECHNOLOGICAL STUDIES

Construction Technology

TCJ 105 Exploring Construction Technology - Open 0.5 credit

This exploratory course introduces students to concepts and skills in construction technology, which encompasses plumbing, electrical and network wiring, masonry, heating/cooling, carpentry, and woodworking. Students will develop an awareness of related environmental and societal issues, and will begin to explore secondary and postsecondary pathways leading to careers in the field.

Manufacturing Technology

TMJ 105 Exploring Manufacturing Technology – Open 0.5 credit

This exploratory course introduces students to concepts and skills related to manufacturing technology, which encompasses technical drawing, properties and preparation of materials, manufacturing techniques, and control systems. Students will develop an awareness of related environmental and societal issues, and will begin to explore secondary and postsecondary pathways leading to careers in the field.



GRADE 10 COURSES

ARTS

Drama

ADA 201 Dramatic Arts – Open 1 credit

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.

Music

AMG 201 Guitar – Open 1 credit

This course emphasizes the performance, appreciation, and analysis of various kinds of 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 using tablature, chord symbols and diagrams, and musical notation while developing their technical and imaginative abilities.

Visual Arts

AVI 201 Visual Arts – Open 1 credit

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 principals 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.

BUSINESS

Business

BTT 201 Business – Open 1 credit

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. There will be an emphasis on digital literacy, effective electronic research and communication skills, and current issues related to the impact of information and communication technology.

CANADIAN AND WORLD STUDIES

Civics

CHV 205 Civics and Citizenship 0.5 credit
- Open

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.

History

CHC 2D1 Canadian History since 1 credit
World War I – Academic

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.

Course Descriptions – Grade 10

CHC 2P1 Canadian History since World War I – Applied 1 credit

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.

CHC 2L1 Canadian History in the Twentieth Century – Locally Developed 1 credit

This course emphasizes strengthening history-related knowledge and skills to prepare students for success in everyday life, in the workplace, and in Grade 11 Workplace courses. Students are given the opportunity to continue developing their skills in reading, writing, and oral language through relevant and practical History activities. They are given opportunities to improve their subject-area knowledge and skills and to practice using them in order to strengthen their literacy skills. This course encourages students to examine their conceptual understandings and beliefs, develop and enhance their critical thinking skills, and engage in meaningful dialogue with teachers and peers.

ENGLISH

ENG 2D1 English – Academic 1 credit

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: ENG 1D1 or ENG 1P1

ENG 2P1 English – Applied 1 credit

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: ENG 1D1 or ENG 1P1

ENG 2LL English – Locally Developed 1 credit

This course continues to emphasize the key reading, writing, oral communication and thinking skills introduced in the Grade 9 Transitional English course. Focusing on skills to ensure success in secondary school and in daily living, this program works towards preparing students to enter the Grade 11 course in English, Workplace, and to complete the Grade 10 Test of Reading and Writing Skills successfully. As with the Grade 9 course, students interact with a variety of genre and continue to develop skills necessary for clear and accurate spoken and written language.

Prerequisite: ENG 1D1, ENG 1P1 or ENG 1LL

FRENCH

FSF 2D1 Core French – Academic 1 credit

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: FSF 1D1

GUIDANCE AND CAREER EDUCATION

Career Studies

GLC 205 Career Studies 0.5 credit

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.

HEALTHY ACTIVE LIVING

Healthy Active Living Education

PPL 20B/G Healthy Active Living Education – Open 1 credit

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 goal-setting, communication and social skills.

Hockey Canada Skills Academy



PAL 201 Hockey Skills Canada Academy – Open 1 credit

This is a highly intense, ice hockey skills program has the following aims:

- ♦ to improve the ice hockey skill level of the students, while complimenting their continued involvement in minor hockey within their home community.
- ♦ to provide students with on-ice hockey skill sessions and off-ice hockey skill sessions
- ♦ to analyse the role of individual responsibility in enhancing personal health and analyse the social factors that influence personal health.

Cost is \$300.00 / year subject to change. Financial assistance is available.

MATHEMATICS

MPM 2D1 Principles of Mathematics 1 credit
- Academic

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

Prerequisite: MPM 1D1 or Mathematic, Grade 9 Transfer, Applied to Academic

MFM 2P1 Foundations of Mathematics 1 credit
- Applied

This course enables students to consolidate their understanding of key mathematical concepts through hands-on activities and to extend their problem-solving experiences in a variety of applications. Students will solve problems involving proportional reasoning and the trigonometry of right triangles; investigate applications of piecewise linear functions; solve and apply systems of linear equations; and solve problems involving quadratic functions. The effective use of technology in learning and in solving problems will be a focus of the course.

Prerequisite: MPM 1D1 or MFM 1P1

MAT 2L1 Mathematics - 1 credit
Locally Developed

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

Prerequisite: MPM 1D1, MFM 1P1 or MAT 1L1

Course Descriptions – Grade 10

SCIENCE

SNC 2D1 Science – Academic 1 credit

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: *SNC 1D1 or SNC 1P1*

SNC 2P1 Science – Applied 1 credit

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: *SNC 1D1 or SNC 1P1*

SNC 2L1 Science -
Locally Developed 1 credit

This course builds upon the material covered in the Grade 9 locally developed Science course and provides the student with an opportunity to study the science in their daily lives. Safe handling of chemicals, environmental issues, energy conservation, weather systems and earth science will all be presented in a practical manner with frequent connections to the student's daily life outside of school. This course will assist in preparing the student to take their place as a responsible and informed member of a society that is increasingly being faced with issues based on an understanding of science.

Prerequisite: *SNC 1D1, SNC 1P1 or SNC 1L1*

SOCIAL SCIENCES & HUMANITIES

Family Studies

HIF 2O1 Exploring Family Studies 1 credit
- Open

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.

Food and Nutrition

HFN 2O1 Food and Nutrition - Open 1 credit

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.



TECHNOLOGICAL STUDIES

Construction Technology

TCJ 205 Construction Technology 0.5 credit
– Open

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

Manufacturing Technology

TMJ 205 Manufacturing Technology 0.5 credit
– Open

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

GRADE 11 COURSES

ARTS

Dramatic Arts

ADA 3M1 Drama – University/
College Preparation 1 credit

This course requires students to create and perform in dramatic presentations. Students will analyze, 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 analyze the functions of playwrights, directors, actors, designers, technicians, and audiences.

Prerequisite: ADA 101 or ADA 201

ADA 3O1 Drama – Open 1 credit

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 analyze the processes involved in producing drama works. Students will develop a variety of skills related to collaboration and the presentation of drama works.

Music

AMG 3M1 Guitar – University/
College Preparation 1 credit

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

Prerequisite: Music, Grade 9 or 10, Open

AMG 3O1 Guitar – Open 1 credit

This course emphasizes the performance, appreciation, and analysis of various kinds of 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 using tablature, chord symbols and diagrams, and musical notation while developing their technical and imaginative abilities.

Visual Arts

AWU 3O1 Visual Arts 1 credit
(Cultural/Historical) – Open

Students will examine major art and design forms of western and non-western civilizations. Skills in critical thinking, visual analysis and art appreciation will be developed through the study of various artists and styles that reflect a variety of cultural traditions.

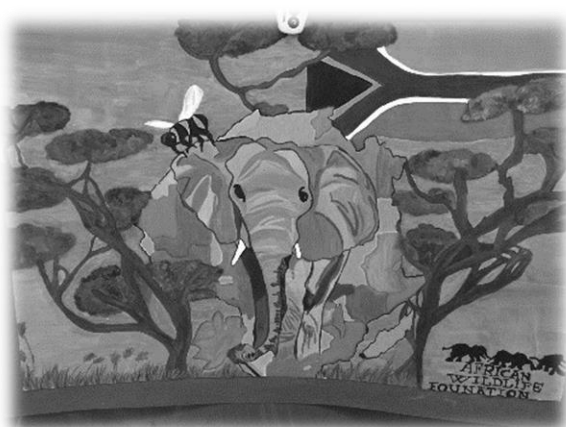
AVI 3M1 Visual Arts – University College Preparation 1 credit

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, information design).

Prerequisite: AVI 101 or AVI 201

AVI 3O1 Visual Arts – Open 1 credit

This course focuses on studio activities in one or more of the visual arts, including drawing, painting, sculpture, photography, printmaking, collage, and/or multimedia art. Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. Students will also explore works of art within a personal, contemporary, historical, and cultural context.



CANADIAN AND WORLD STUDIES

Geography

VC GG 30 Travel and Tourism: 1 credit
A Geographic Perspective e-learning
- Open

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.

Prerequisite: CGC 1D1 or CGC 1P1

History

CHW3M1 World History at the End 1 credit
of the Fifteenth Century
- University/College Preparation

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: CHC 2D1 or CHC 2P1

CLU 3E1 Understanding Canadian 1 credit
Law – Workplace Preparation

This course enables students to develop a practical understanding of laws that affect the everyday lives of people in Canada, including their own lives. Students will gain an understanding of the need for laws, and of their rights, freedoms, and responsibilities under Canadian law. Topics include laws relating to marriage, the workplace, cyber-bullying, and the processing of criminal offences. Students will apply the concepts of legal thinking and the legal inquiry process, and will begin to develop legal reasoning skills and an understanding of Canadian law. Offered in 2022-2023.

Prerequisite: CHC 2D1, CHC 2P1 or a locally developed compulsory course (LDCC)

Course Descriptions – Grade 11

CLU 3M1 Understanding Canadian 1 credit
Law – University/College
Preparation

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. Offered in 2021-2022 and 2023-2024.

Prerequisite: *CHC 2D1 or CHC 2P1*

ENGLISH

NBE 3C1 Contemporary Aboriginal 1 credit
Voices – College

This course emphasizes the development of literacy, critical thinking, and communication skills through the study of works in English by Aboriginal writers. Students will study the content, form, and style of informational texts and literary and media works, and will develop an appreciation of the wealth and complexity of Aboriginal writing. Students will also write reports, correspondence, and persuasive essays, and analyze the relationship between media forms and audiences. An important focus will be on establishing appropriate voice and using business and technical language with precision and clarity.

NBE 3E1 Contemporary Aboriginal 1 credit
Voices – Workplace

This course emphasizes the development of literacy, critical thinking, and communication skills through the study of works in English by Aboriginal writers. Students will study the content, form, and style of informational texts and literary and media works, and will develop an appreciation of the wealth and complexity of Aboriginal writing. Students will also write reports, correspondence, and persuasive essays, and analyze the relationship between media forms and audiences. An important focus will be on establishing appropriate voice and using business and technical language with precision and clarity.

NBE 3U1 Contemporary Aboriginal 1 credit
Voices – University

This course emphasizes the development of literacy, critical thinking, and communication skills through the study of works in English by Aboriginal writers. Through the analysis of literary texts and media works, students will develop an appreciation of the wealth and complexity of Aboriginal writing. Students will also conduct research and analyze the information gathered; write persuasive and literary essays; and analyze the relationship between media forms and audiences. An important focus will be the further development of students' understanding of English-language usage and conventions.

FRENCH

FSF 3U1 Core French - 1 credit
University Preparation

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: *FSF 2D1*



HEALTHY ACTIVE LIVING

Healthy Active Living Education

PPL 3O1 Healthy Active Living 1 credit
Education – Open

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy 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 goal-setting, communication and social skills.

Hockey Canada Skills Academy



PAL 3O1 Hockey Skills Canada 1 credit
Academy – Open

This is a highly intense, ice hockey skills program has the following aims:

- to improve the ice hockey skill level of the students, while complimenting their continued involvement in minor hockey within their home community.
- to provide students with on-ice hockey skill sessions and off-ice hockey skill sessions
- to analyse the role of individual responsibility in enhancing personal health and analyse the social factors that influence personal health.

Cost is \$300.00 / year subject to change. Financial assistance is available.

Healthy Active Living (Fitness Focus)

PAF 3OB/G Fitness – Open 1 credit

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy 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 goal-setting, communication and social skills. Most of this course takes place in the NDHS Fitness Facility (Weight Room).

MATHEMATICS

MCR 3U1 Functions – University 1 credit
Preparation

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

Prerequisite: MPM 2D1

MCF3M1 Functions and Applications 1 credit
- University/College Preparation

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

Prerequisite: MPM 2D1 or MFM 2P1

MBF 3C1 Foundations of College 1 credit
Mathematics – College
Preparation

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

Prerequisite: MPM 2D1 or MFM 2P1

MEL3E1 Mathematics for Everyday Life – Workplace Preparation 1 credit

This course enables students to broaden their understanding of mathematics as it is applied in important areas of day-to-day living. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations.

Prerequisite: *MFM1P1, MFM 2P1 or MAT 2L*

SCIENCE

Biology

SBI 3U1 Biology – University Preparation 1 credit

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: *SNC 2D1*

SBI 3C1 Biology – College Preparation 1 credit

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. Offered in 2021-2022 and 2023-2024.

Prerequisite: *SNC 2D1 or SNC 2P1*

Chemistry

SCH 3U1 Chemistry – University Preparation 1 credit

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.

Environmental Science

SVN 3M1 Environmental Science – University/College Preparation 1 credit

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. Offered in 2022-2023.

Prerequisite: *SNC 2D1 or SNC 2P1*

SVN 3E1 Environmental Science – Workplace Preparation 1 credit

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. Offered in 2021-2022 and 2023-2024.

Prerequisite: *SNC 1D1, SNC 1P1, SNC 1L1 or SNC 2L1*

Physics

SPH 3U1 Physics – University Preparation 1 credit

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 analyze the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

Prerequisite: *SNC 2D1*

SOCIAL SCIENCES & HUMANITIES

Food and Culture

HFC 3M1 Food and Culture 1 credit
– College/University

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.

HFC 3E1 Food and Culture 1 credit
– Workplace Preparation

This course focuses on the flavours, aromas, cooking techniques, foods, and cultural traditions of world cuisines. Students will demonstrate the ability to cook with ingredients and equipment from a range of cultures, describe food-related etiquette in a variety of countries and cultures, and explore ways in which Canadian food choices and traditions have been influenced by other cultures. Students will have opportunities to develop practical skills and apply research skills as they investigate foods and food practices from around the world.

Parenting

VHPC 3O Raising Healthy 1 credit
Children – Open (e-learning)

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.

HPW 3C1 Living and Working with 1 credit
Children – College

This course prepares students for occupations involving children from birth to six years of age. Students will study theories about child behaviour and development, and will have opportunities for research and observation and for practical experiences with young children. Students will become familiar with occupational opportunities and requirements related to working with infants and young children. They will also have opportunities to develop research and critical-thinking skills as they investigate and evaluate current research about early childhood education.

Anthropology, Psychology and Sociology

VHSP 3U Introduction to Anthropology, 1 credit
Psychology and Sociology (e-learning)
– University Preparation

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 research, and to become familiar with current thinking on a range of issues within the three disciplines.

Prerequisite: ENG 2D1 or CHC 2D1

VHSP 3C Introduction to Anthropology, 1 credit
Psychology and Sociology (e-learning)
– College Preparation

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. Offered in 2020-2021 and 2022-2023.

BUSINESS

BMX 3E1 Introduction to Retail Services – Workplace 1 credit

This course focuses on marketing activities in the retail and service sectors. Students will examine trends and global influences on marketing decisions, and will learn about the importance of customer service in developing a customer base and maintaining customer loyalty. Through hands-on learning, students will develop personal selling and information technology skills that will prepare them for a variety of marketing-related positions in the workplace. Offered in 2021-2022 and 2023-2024.

VBD I3C Entrepreneurship: The Venture - College 1 credit (e-learning)

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 is an e-Learning Hub course.

VBM I3C Introduction to Marketing - College 1 credit (e-learning)

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 is an e-Learning Hub course.



TECHNOLOGICAL STUDIES

Custom Woodworking

TWJ 3E1 Custom Woodworking - Workplace Preparation 1 credit

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 will explore apprenticeships, postsecondary training, and career opportunities in the field that may be pursued directly after graduation.

Manufacturing Technology

TMW 3E1 Manufacturing Technology - Welding Workplace Preparation 1 credit

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.

Construction Technology

TCJ 3C1 Construction Technology - College 1 credit

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

Course Descriptions – Grade 11/12

TCJ 3E1 Construction Technology - Workplace 1 credit

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

GRADE 12 COURSES

ARTS

Dramatic Arts

ADA 4M1 Drama – University/ College Preparation 1 credit

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 analyze how the knowledge and skills developed in drama are related to their personal skills, social awareness, and goals beyond secondary school.

Prerequisite: ADA 3M1

ADA 4E1 Drama – Workplace Preparation 1 credit

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

Prerequisite: ADA 301

Music

AMG 4M1 Guitar – University/ College Preparation 1 credit

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

Visual Arts

AVI 4M1 Visual Arts – University/ College Preparation 1 credit

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: AVI 3M1

AVI 4E1 Visual Arts – Workplace Preparation 1 credit

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

Prerequisite: AVI 3M1 or AVI 301

CANADIAN AND WORLD STUDIES

Geography

VCGW4U Canadian and World 1 credit
Issues: A Geographic Analysis, (e-learning)
University Preparation

This course draws on geographic concepts, skills, methods, and technologies to analyse significant issues facing Canadians as citizens of an interdependent world. Students will examine the challenges of creating a sustainable and equitable future through the study of a range of topics, including economic interdependence; geopolitical conflict; regional disparities in the ability to meet basic human needs; and protection of the planet's life-support systems.

Prerequisite: Any University, U/C in Canadian and World Studies, English or Social Sciences

VCGW4C Canadian and World 1 credit
Issues: A Geographic Analysis, (e-learning)
College Preparation

This course draws on geographic concepts, skills, methods, and technologies to analyse significant issues facing Canadians as citizens of an interdependent world. Students will examine the challenges of creating a sustainable and equitable future through the study of a range of topics, including economic interdependence; geopolitical conflict; regional disparities in the ability to meet basic human needs; and protection of the planet's life-support systems.

Prerequisite: Any University or College preparation course in Canadian & World Studies, English or Social Sciences

History

VCHY 4U World History since 1 credit
The Fifteenth Century – (e-learning)
University Preparation

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: CHA 3U1, CHW 3M1, CLU 3M1, ENG 3U1 or HSP 3U1

VCHY 4C World History since 1 credit
The Fifteenth Century – (e-learning)
College Preparation

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: CHA 3U1, CHW 3M1, CLU 3M1, ENG 3U1, ENG 3C1, HSP 3U1 or HSP 3C1



BUSINESS

VBBB 4M International Business 1 credit
- College/University (e-learning)

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

Course Descriptions – Grade 12

VBOH 4M Business Leadership 1 credit
- College/University (e-learning)

This course focuses on the development of leadership skills used in managing a successful business. Students will analyse the role of a leader in business with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility will be emphasized throughout the course. This is an e-Learning Hub course.

ENGLISH

ENG 4U1 English – University 1 credit
Preparation

This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze 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: ENG 3U1

ENG 4C1 English – College 1 credit
Preparation

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

Prerequisite: ENG 3U1 or ENG 3C1

ENG 4E1 English – Workplace 1 credit
Preparation

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyze 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: ENG 3U1, ENG 3C1 or ENG 3E1

The Writer's Craft

VEWC 4U The Writer's Craft - 1 credit
University Preparation (e-learning)

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

Prerequisite: ENG 3U1

VEWC 4C The Writer's Craft - 1 credit
College Preparation (e-learning)

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: ENG 3U1 or ENG 3C1

Course Descriptions – Grade 12

Ontario Secondary School Literacy Course

OLC 40L Ontario Secondary 1 credit
School Literacy Course

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. 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 literacy portfolio containing a record of their reading experiences and samples of their writing.

FRENCH

FSF 4U1 Core French – 1 credit
University Preparation

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: FSF 4U1

HEALTHY ACTIVE LIVING

Healthy Active Living Education

PPL 4O1 Healthy Active Living 1 credit
Education – Open

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

Hockey Canada Skills Academy



PAL 4O1 Hockey Skills Canada 1 credit
Academy – Open

This is a highly intense, ice hockey skills program has the following aims:

- ♦ to improve the ice hockey skill level of the students, while complimenting their continued involvement in minor hockey within their home community.
- ♦ to provide students with on-ice hockey skill sessions and off-ice hockey skill sessions
- ♦ to analyse the role of individual responsibility in enhancing personal health and analyse the social factors that influence personal health.

Cost is \$300.00 / year subject to change. Financial assistance is available.

Healthy Active Living (Fitness Focus)

PAF 4OB/G Fitness – Open 1 credit

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy 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 goal-setting, communication and social skills. Most of this course takes place in the NDHS Fitness Facility (Weight Room)

PSK 4U1 Exercise Science – University 1 credit

This course focuses on the study of human movement and of systems, factors, and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and sport, and the physiological, psychological, and social factors that influence an individual's participation in physical activity and sport. The course prepares students for university programs in physical education and health, kinesiology, health sciences, health studies, recreation, and sports administration. Offered in 2022-2023.

Course Descriptions - Grade 12

MATHEMATICS

MDM 4U1 Mathematics of Data Management – University Preparation 1 credit

This course broadens students' understanding of mathematics as it relates to managing information. Students will apply methods for organizing large amounts of information; apply counting techniques, probability, and statistics in modeling and solving problems; and carry out a culminating project that integrates the expectations of the course and encourages perseverance and independence. Students planning to pursue university programs in business, the social sciences, or the humanities will find this course of particular interest.

Prerequisite: *MCR 3U1 or MCF 3M1*

MHF 4U1 Advanced Functions - University Preparation 1 credit

This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs. Offered in 2021-2022 and 2023-2024.

Prerequisite: *MCR 3U1*

MCV 4U1 Calculus and Vectors - University Preparation 1 credit

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 modeling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.

Prerequisite: *MHF 4U1*

MAP 4C1 Foundations for College Mathematics – College Preparation 1 credit

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

Prerequisite: *MCF 3M1 or MBF 3C1*

MEL 4E1 Mathematics for Everyday Life – Workplace Preparation 1 credit

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

Prerequisite: *MEL 3E1*

SCIENCE

Science

SNC 4E1 Science – Workplace 1 credit

This course provides students with fundamental science knowledge and workplace skills needed to prepare them for success beyond secondary school. Students will explore hazards in the workplace, chemicals in consumer products, disease and its prevention, electricity at home and at work, and nutritional science. Emphasis is placed on current topics in science and relevant, practical activities that develop student's literacy and mathematical literacy skills and enhance their scientific literacy.

Course Descriptions - Grade 12

Biology

SBI 4U1 Biology – University Preparation 1 credit

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. Offered in 2021-2022 and 2023-2024.

Prerequisite: SBI 3U1

Recommended: SCH 3U1

Chemistry

SCH 4U1 Chemistry - University Preparation 1 credit

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. Offered in 2022-2023.

Prerequisite: SCH 3U1

SCH 4C1 Chemistry – College Preparation 1 credit

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: SNC 2D1 or SNC 2P1

Physics

SPH 4U1 Physics – University Preparation 1 credit

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 analyze, 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: SPH 3U1

SPH 4C1 Physics – College Preparation 1 credit

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: SNC 2D1 or SNC 2P1

SOCIAL SCIENCES & HUMANITIES

HFL 4E1 Food and Healthy Living 1 credit
- Workplace Preparation

This course focuses on the fundamental food needs of young adults. Students will learn how to stock a kitchen, make nutritious food choices, and accommodate the food needs of others. Through a range of practical experiences, they will develop skills needed in food preparation for personal use and for employment in the food industry. They will also learn about dining etiquette in different contexts and about responsible consumer practices. Students will use social science research methods to investigate issues related to food preparation and nutrition.

Course Descriptions - Grade 12

VHSB 4U Challenge & Change 1 credit
in Society – (e-learning)
University Preparation

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: *CHA 3U1, CHW 3M1, CLU 3M1, ENG 3U1 or HSP 3U1*

HHG 4M1 Issues in Growth & 1 credit
Development - (e-learning)
College/University

This course offers a multidisciplinary approach to the study of human development throughout the life cycle, with particular emphasis on enhancing growth and development. Students will examine how early brain and child development are linked to lifelong learning, health, and well-being. This course also refines students' skills in researching and investigating issues related to human growth and development.

HPD 4C1 Working with School-Age 1 credit
Children – College

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.

HSE 4M1 Equity & Social Justice – 1 credit
College/University

This course enables students to develop an understanding of the theoretical, social, and historical underpinnings of various equity and social justice issues and to analyse strategies for bringing about positive social change. Students will learn about historical and contemporary equity and social justice issues in Canada and globally. They will explore power relations and the impact of a variety of factors on equity and social justice. Students will develop and apply research skills and will design and implement a social action initiative relating to an equity or social justice issue.

TECHNOLOGICAL STUDIES

Manufacturing Technology

TMW 4E1 Manufacturing Technology 1 credit
- Welding Focus
Workplace Preparation

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

Prerequisite: *TMW 3E1*



Course Descriptions - Grade 12

TLU 4T1 Fleming C: Welding Fundamentals 1 credit

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. Students will receive one secondary school credit and one Fleming College credit upon successful completion of this program.

Prerequisite: TMJ 3M1, TMJ 3C1 or TMJ 3E1

Construction Technology

TCJ 4C1 Construction Technology – College 1 credit

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

Prerequisite: TCJ 3C1



TCJ 4E1 Construction Technology – Workplace 1 credit

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: TCJ 3E1

