

# Clarke Road Secondary School

## **COURSE CALENDAR 2022-2023**



**FROM CLARKE ROAD...  
...TO THE ROAD AHEAD**

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# COURSE CALENDAR 2021-2023

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## Administration

Principal.....Mr. M. Flumerfelt  
Vice-Principal ..... Ms. J. Emke (A - K)  
Vice-Principal ..... Ms. K. O'Hara (L - Z)

## Student Services

### **Head of Student Services:**

Ms. J. Chalmers

### **Guidance Counsellors:**

Ms. J. Chalmers (A – G)

Mr. C. Nye (H – Ma)

Ms. R. Robins (Mc – Z)

### **Resource:**

Mr. A. Kurn

Mrs. S. Marshall

### **Student Success Teacher:**

Mrs. S. Sullivan

### **Social Worker/Attendance Counsellor:**

Ms. E. Wilson

### **Alternative to Suspension:**

Ms. R. Robertson

### **School Support Counsellor:**

Ms. C. Schneider

### **School Psychologist:**

Dr. J. Kurita

### **School Nurse:**

Ms. J. Limburg

### **Community Service Hours**

Ms. J. MacMillan

## Useful Websites:

Ministry of Education <http://www.edu.gov.on.ca>

Education Quality and Accountability Office [www.eqao.com](http://www.eqao.com)

Parent Portal – email [clarkeroad@tvdsb.ca](mailto:clarkeroad@tvdsb.ca) to request set-up access

## **REGISTRATION**

Responsibility for the correct registration of students rests with students and their parents in co-operation with guidance counsellors. Students and parents should select courses with great care, basing their decisions on the information available in this course guide, and the advice available at the school.

The following policies and procedures are important:

- a) Registration occurs in January - February.
- b) Students and parents will verify course selections during April. The guidance department should be notified of any errors.
- c) In June, when the final report card is issued, the student is responsible for notifying the guidance department if course failures necessitate a change in courses selected.
- d) Amendments to course selections resulting from summer school must be initiated by the student at the conclusion of summer school, by informing school official.
- e) Students wishing to register at a school other than their home school must do so BEFORE MARCH 1 and must provide their own transportation. Consideration of such a request and subsequent approval/denial lies with the school Principal, and is based on current enrolment at that grade level and/or in the course requested. The designated school of a student is determined by primary address otherwise and the program of study. The receiving Principal is to consult with the sending Principal prior to making a decision in order that consideration is given to the possible negative impact on the program offerings of the sending school. Confirmation of the decision of the receiving Principal will be provided in writing by June 30<sup>th</sup>. Under this procedure, transportation is not provided and this is the responsibility of the parent/guardian.

## **REGISTRATION PROCESS**

**Purpose:** This booklet has been designed to provide our students with information about:

- ⊕ the courses offered at Clarke Road Secondary School for the 2022 – 2023 school year
- ⊕ the destinations related to course options and pathways.
- ⊕ From this booklet students choose their courses based on their post-secondary destinations.

### **Student's Task:**

- Step One:** Consult parents, teachers and guidance counsellors for information regarding course selections.
- Step Two:** Review course offerings using the course descriptions in this booklet.
- Step Three:** Visit [www.myBlueprint.ca/tvdsb](http://www.myBlueprint.ca/tvdsb). Click on submit courses. Print and return a signed copy of your Course Selection Sign-off sheet to your counsellor. **Make sure this process is complete by Friday, February 11<sup>th</sup> !**
- Step Four:** Log onto Clarke Road's home page, click on Student Portal, choose Registration and transfer course choices from working copy to Student Portal.
- Note:** Courses are offered subject to the number of students registering in a course to warrant offering a class. The Principal makes the final decisions about course offerings.

## **TIMETABLE CHANGES**

Our staff allocation and master timetable are constructed on the assumption that students will take all the courses which they request at registration time. It is, therefore, our policy that once the timetable is completed, changes and drops will be permitted only in very unusual circumstances. Valid reasons for requesting a timetable change include the following:

- a) errors in timetabling
- b) failure of a course
- c) change in a career plan which requires a specific course change
- d) need for a course at different level of difficulty
- e) credit earned in summer school

Timetables will not be changed during September unless there are exceptional circumstances. Once a course has been selected, students are expected to treat it as a commitment to the end of the semester.

Minimum credits per year are:

- Grades 9, 10, 11 - 4 credits per semester
- Grades 12, - 3 credits per semester (with a minimum 20 credits).

Note: Students are required to have completed a minimum of 20 credits before a "spare" period is assigned. Requests to drop below the minimum credit load may be considered under exceptional circumstances and will only be considered after consultation with the vice principal or principal. Honour roll qualifications are based on an average of 80% or greater on a minimum of 8 courses in grade 9 and 10, seven courses in grade 11 and six courses in 12. These courses must be taken during the school year at a day school.

## ***STUDENT SERVICES***

### ***GUIDANCE DEPARTMENT***

Guidance counsellors offer a variety of services to assist students in getting the most out of high school. Counsellors are available to assist students through:

- academic counselling to assist them with course selections and post-secondary educational planning
- short individual counselling for personal concerns
- career counselling to help them plan for their future
- computer services such as “myBlueprint” to help them learn about career opportunities
- access to special help offered by the school psychologist, the school social worker and outside agencies
- maintenance of their Ontario Student Record/Community Service Hours
- access to adult tutoring

Parents are encouraged to contact their student’s counsellor for assistance or information.

### ***SCHOOL SUPPORT SERVICES & RESOURCES***

#### **LIBRARY**

The library has, in addition to an extensive collection of print audio and multi-media resources 40 computer stations with access to the Internet and varied software programs for student use. A photocopier is also available. Hours vary through the week but the library is generally open from 7:45 a.m. to 3:00 p.m.

#### **SCHOOL PSYCHOLOGIST**

The psychologist is available by referral through the Program Development Team.

#### **PUBLIC HEALTH NURSE**

The nurse attends Clarke Road one day each week to discuss health concerns with students and or parents. Students can refer themselves. The nurse is a guest speaker in classes.

#### **SOCIAL WORKER**

The school social worker provides assessment, counselling and support for students in grades 9 through 12 who may be experiencing social and or emotional difficulties. The social worker also provides links to community agencies and resources to address the needs of individual students and their families. Additionally, the school social worker works with students under the age of 18 who are having difficulty attending school regularly. Referrals are made by guidance counsellors and administrators.

#### **STUDENT SUCCESS TEACHER**

The Ministry of Education requires each secondary school to have a student success teacher who knows and tracks the progress of students at risk of not graduating; who support school-wide efforts to improve outcomes for students struggling with the secondary curriculum; who provide direct support/instruction to these students in order to improve student achievement, retention, and transitions; and who work with parents and the community to support student success.

#### **STUDENT SUCCESS TEAM**

The Ministry of Education requires each secondary school to have a Student Success Team, comprised of the Principal or designate, the student success teacher, the guidance department head or designate, and special education head or designate, and other members as appropriate. The Student Success Team is responsible for two primary functions: to develop school procedures and models for the effective delivery of all student success initiatives; to track, coordinate and assume responsibility for at-risk students through the student success teacher.

#### **CREDIT RECOVERY PROGRAM**

The Credit Recovery Program is one of several options for a student who has failed a credit course. Access to the Credit Recovery Program must be through a recommendation by the Principal and agreed to by the student and, where appropriate (e.g., students under the age of majority), the parent(s)/guardian(s) who must share some responsibility for the learning.

**CREDIT RECOVERY TEAM** The Credit Recovery Team is a sub-set of the school’s Student Success Team, comprised of the Principal or designate, the student success teacher and the guidance department head or designate, and other members as appropriate. The Credit Recovery Team convenes periodically to determine the credit recovery placement of a student who has failed a credit course, after the Principal has recommended the student for placement in the Credit Recovery Program.

## **LEARNING SUPPORT PROGRAM**

Resource teachers offer assistance to students on Individual Education Plans (IEP's). Students who are on a IEP may use the resource room for exam/test taking, assistance with class work, and/or to use assistive technologies. Students may request to come to resource or may be sent by their teacher.

### **Learning Strategies - Withdrawal**

This program is offered only to Grade 9 IEP students who are generally withdrawn from one period over the course a semester. Students are registered in this program only through consultation with parents, LST's, and teachers upon entry into Grade 9. The numbers are limited and selection is determined upon severity of need.

## **OSSD DIPLOMA REQUIREMENTS**

**Compulsory Credits (total of 18)** Students must earn the following compulsory credits to obtain the Ontario Secondary School Diploma:

- 4 credits in English (1 credit per grade)
- 1 credit in French as a second language
- 3 credits in Mathematics (at least 1 credit in Grade 11 or 12)
- 2 credits in Science
- 1 credit in Canadian History
- 1 credit in Canadian Geography
- 1 credit in the Arts
- 1 credit in Health and Physical Education
- .5 credit in Civics
- .5 credit in Career Studies
- 1 additional credit in English or French as a second language, or a Native Language or a classical or an international language or Social Sciences and the Humanities, or Canadian and World Studies or Guidance and Career Education or Cooperative Education
- 1 additional credit in Health and Physical Education, or the Arts, or Business Studies, French as a second language or Cooperative Education
- 1 additional credit in Science (Grade 11 or 12) or Technological Studies or French as a second language or Cooperative Education

A maximum of two of the three additional compulsory credit requirements for groups 1, 2, and 3 may be met with credits in French as a second language, one of which may be earned for group 1 and the second for either group 2 or group 3.

### **OPTIONAL CREDITS (TOTAL OF 12)**

In addition to the 18 compulsory credits, students must earn 12 optional credits. Students may earn these credits by successfully completing courses that they have selected from the courses listed in the school course calendar.

### **COMMUNITY INVOLVEMENT REQUIREMENTS/PROCEDURES**

As part of the diploma requirements, students must complete a **minimum of 40 hours** of community involvement activities. These activities may be completed at any time during their years in the secondary school program. Students, in collaboration with their parents, will decide how they will fulfill the community involvement requirement. Additional information is available in the Thames Valley Brochure. 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 requirements 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. All activities must take place outside of normal instructional hours - that is, during lunch hours, before or after school, on weekends or during school holidays. Schools will provide a list of acceptable activities. Students may select from this list or do an activity of their own choosing. These activities should be cleared with the principal as to their acceptability. Students will maintain and provide a record of their community involvement activities. Completion of the required 40 hours must be confirmed by the organization(s) or person(s) supervising the activities. Documentation attesting to the completion of each activity must be submitted to the principal by the student. This documentation must include for each activity the name of the person or organization receiving the service, the activity performed, the dates and hours, the signatures of the student and his or her parents, and a signed acknowledgment by the person (or a representative of the organization involved). The school will provide forms for collecting and recording this information. The principal will decide whether the student has met the requirements of both the ministry and the board for these activities.

### **GRADE 10 LITERACY TEST - OSSLT**

All students entering high school after September, 1999 must successfully complete the provincial secondary school literacy requirement in order to earn a secondary school diploma. The literacy test will be normally offered in Grade 10 and will be based on the curriculum expectations for language and communications - particularly reading and writing - up to and including Grade 9. Students who do not successfully complete the test may require remedial assistance in order to improve their skills so that they are better prepared to retake the test.

## **OLC 401**

The Ontario Literacy Course is offered in grade 12 for students who have failed the literacy test more than once. Prerequisites: Successful completion of an English course in grade 9, 10 and 11 and two failed attempts at the literacy test.

**OSSLT Accommodations, Deferrals and Exemptions may be available through the principal.**

### **OSSLT - Accommodations**

The necessary accommodations must be made to ensure that students who are receiving special education programs and services and who have an Individual Education Plan (IEP) have a fair and equal opportunity to successfully complete the secondary school literacy test. The accommodations made will be the same as are set out in the student's IEP and/or that are available to the student in the course of his or her regular work, including examinations and other forms of evaluations. The accommodations may not include any alteration of the content of the test.

### **OSSLT - Deferrals**

A deferral of the test may be granted to students who have been identified as exceptional or who are registered in English as a second language/English literacy development (ESL/ELD) courses, who have not yet acquired the level of proficiency in English required for successfully completing the test. Parents and adult students may request deferrals from the principal who will approve or not approve the deferral and for what period of time. The principal may also initiate consideration of a deferral. In the case of a disagreement with the decision of the principal, parents or adult students may ask the appropriate supervisory officer to review the matter.

### **OSSLT - Exemptions**

Students whose IEP indicates that the student is not working toward attaining a secondary school diploma may, with parental consent and the approval of the Principal, be exempted from participating in the secondary school literacy test. If plans should change for a student so exempted, he or she would be then expected to successfully complete the test in order to attain the secondary school diploma.

## **CERTIFICATE REQUIREMENTS**

### **REQUIREMENTS OF THE 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 History or Canadian Geography
- 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 the available courses

### **CERTIFICATE OF ACCOMPLISHMENT**

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

## **ACADEMIC INFORMATION**

### **TRANSFER COURSE:**

Students who wish to change from one course type to another between grades 10 and 11 and/or grades 11 and 12 may take a transfer course to enable them to bridge the gap between courses. These courses **may** be offered by the Thames Valley District School Board at night or summer school or virtual academy. Partial credit transfer courses may also serve as appropriate prerequisites. For additional information, contact your guidance counsellor. Information on transfer courses is also available at <http://www.edu.gov.on.ca/eng/document/curricul/transfer-e.pdf>

### **SUBSTITUTION OF COMPULSORY CREDITS**

The Principal of a school, in order to meet individual students' needs, may, in unique circumstances, replace up to three of the compulsory credit requirements. Substitutions will be noted on the student's Ontario Student Transcript.

## **ONTARIO STUDENT RECORD (OSR) AND ONTARIO STUDENT TRANSCRIPT (OST):**

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

The Ontario Student Transcript (OST) provides a comprehensive record of a student's achievement in high school. All credits gained by any means are recorded in the OST. It will include the following information:

- the student's achievement in grades 9 and 10 with percentage grades earned and credits gained for successfully completed courses.
- a list of all grade 11 and 12 courses taken or attempted by the student, with the percentage grades earned and the credits gained.

Note that failures and withdrawals will be reflected in the OST.

- identification of courses substituted for one that is a diploma requirement.
- confirmation that a student has completed the community involvement requirement
- the student's final result on the provincial secondary school literacy test.
- an indication of any extraordinary circumstances affecting the student's achievement in grade 11 or 12.

## **PLAR: Information**

Students may receive a credit for taking a course if they can demonstrate that they have the skills and knowledge from prior learning to meet the expectations for the course set out in the provincial curriculum. Students will be assessed through the new Prior Learning Assessment and Recognition (PLAR) process. Assessment instruments must include formal tests and other methods of evaluation appropriate to the subject. Students may obtain a maximum of four credits for grade 10, 11 and 12 courses through this process, with no more than two in one subject area. Through the PLAR process, students may also be granted equivalent credits for course work completed outside Ontario or in non-inspected private schools in Ontario. Please see your guidance counsellor for further information.

## **DEFINITION OF CREDIT**

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

### **DEFINITIONS - Grades 9 and 10**

**Academic Courses** - Academic courses emphasize theory and abstract problems. They provide the prerequisites for senior university courses.

**Applied Courses** - Applied courses focus on practical applications and concrete examples. They provide the prerequisites for most college courses.

**Locally Developed Courses** - Locally developed courses meet educational needs not met by provincial curriculum policy documents. Such courses may be developed to accommodate educational and/or career preparation needs of students in a particular school or region. These courses may also be developed for students receiving special education programs and services whose need for particular course content or for special preparation for further education or work cannot be met by a course based on provincial curriculum policy documents.

School boards will determine which courses will be developed locally and offered in their jurisdiction. Course content, the proposed range of teaching strategies, and assessment and evaluation procedures must be consistent with current ministry policy.

**Open Courses** - Open courses, offered in all secondary school grades, are designed to prepare students for further study in certain subjects and to enrich their education generally.

### **DEFINITIONS - Grades 11 and 12**

Courses at this level are destination courses which seek to prepare the student for life beyond secondary school.

**University Preparation Courses (U - Level)** - These courses seek to prepare the student for university. They emphasize theoretical and concrete aspects of the course content along with the development of independent research and learning skills.

**University/College (M - Level) Preparation Courses** - These courses include content that is relevant for both university and college programs.

**College Preparation Courses (C - Level)** - These courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements for college.

**Workplace Preparation Skills (E- Level)** - These courses offer students the skills and knowledge they need for direct entry into the workplace or for admission to apprenticeship programs and other training programs offered in the community.

**Open Courses (O - Open Level)** - As in Grades 9 and 10, open courses are for enrichment and further study.

## **CROSS-OVER MATERIALS: INFORMATION**

When a student plans to change from an academic course in grade 9 to an applied course in grade 10 (or vice versa) in the same subject, the student will be strongly encouraged to successfully complete up to 30 hours of additional course work. This extra work will be

necessary to make up for work included in the one grade 9 course but not the other. The work will be self-directed and may be completed in the summer or outside the regular school day.

### **ACCESS TO COURSE OUTLINES**

Parents and/or students who want to review course outlines may do so through student services or through the Principal.

### **ACCESS TO CURRICULUM POLICY DOCUMENTS**

Students and parents may find Ministry of Education Curriculum documents in the school library or at the Thames Valley District School Board office..

### **REMEDIAL PROGRAMS**

Students experiencing difficulty in a course are recommended to see their teacher, the head of the department, their guidance counsellor and or the learning resource teacher. Students who do not succeed in getting a credit may be eligible for summer school. See your guidance counsellor for further information.

### **SPECIAL EDUCATION**

The Resource Guide for Special Education and information on the board's policies related to special education are available at [www.tvdsb.on.ca/special\\_ed/index.htm](http://www.tvdsb.on.ca/special_ed/index.htm) or by calling Program Services at (519) 452-2033.

### **IIINDEPENDENT LEARNING COURSES AND DISTANCE EDUCATION**

Information about eligibility, enrolment procedures and course offerings for Independent Learning Courses may be found at the ILC website, <http://ilc.edu.gov.on.ca/01/home.htm> or by contacting your guidance counsellor.

Distance education courses are credit courses that are offered through various technological means such as teleconferencing, the internet, and video-conferencing. Information on distance education is available through the guidance counsellor or the school board.

### **eLEARNING**

Online learning, or eLearning, is the delivery of programs using the internet. It is a form of learning that is becoming more popular with secondary school students, post-secondary learning institutions and professional learning situations world-wide. Most students will encounter online learning at some point in their academic and/or career future.

Online learning provides a different learning experience for students. Online learning:

- allows students to learn in a more independent environment
- enables students to learn in a more flexible learning environment
- supports inquiry and project-based learning
- increases their technology skill set for future learning
- assists students in developing the skills needed for the 21<sup>st</sup> Century

The Thames Valley District School Board has an expanded selection of eLearning courses available. Students take these courses as part of their regular schedule. They remain at their home school and access eLearning at a time most convenient to them and their learning style. For more information, please visit the eLearning website <http://www.elearningstudents.ca> or see your guidance counsellor.

### **SPECIAL EDUCATION ADVISORY COMMITTEE STATEMENT**

Special education programs and services are available to address the needs of pupils. Most pupils with special needs are able to succeed in the regular classroom. Some pupils, however, need specialized support to achieve this goal. This is provided through a variety of means. For further information, please consult the Principal or the school learning support teacher.

## ***ADVANCED PLACEMENT COURSES***

Certain courses provide the opportunity for students to prepare to write AP exams. These are university level courses that the students do in a self-study manner by engaging in tutorials offered at Clarke Road Secondary School and writing a final exam. Students who are successful in the exams will be granted credit in advanced placement at particular universities. If interested in more information on AP courses, check [www.ap.ca](http://www.ap.ca).



## **WORK INTERNSHIP PROGRAM**

Through the Work Internship Program at Clarke Road, students have the opportunity to enter a program that will provide them with a comprehensive pathway from school to the world of work.

Students have the opportunity to earn either an Ontario Secondary School Diploma or an Ontario Secondary School Certificate. For more information, please see the page at the front of this booklet titled “What do you need to graduate?”

The program supports the completion of secondary school with credit accumulation through flexible programming; experiential learning; work experiences, and the completion of industry certificates.

This specialized program is designed for students who have significant gaps in their learning, who experience difficulty in school, and require additional supports and monitoring and should be selected through the guidance of the Learning Support Teacher.

The Grade 9 and 10 program runs in a two year cycle.

The Work Internship Program will vary based on course availability.

*Please see the back of this page for the Ministry of Education course descriptions for Grade 9 course selections.*

### **Work Internship Pathway**

<b>Grade 9 (Year 1)</b>	<b>Grade 10 (Year 2)</b>	<b>Grade 11</b>	<b>Grade 12</b>
<b>6 credit package:</b>  <b>ENG 1LW</b> <b>MAT 1LW</b> <b>SNC 1LW</b> <b>CGC 1PW</b> <b>FSF 141</b> <b>TIJ 1O1</b>  <b>2 mandatory credits:</b>  <b>AVI 1O1 or ADA 1O1</b> <b>PPL 1OF/M</b>	<b>5 credit package:</b>  <b>ENG 2LW</b> <b>MAT 2LW</b> <b>CHC 2PW</b> <b>CHV 2OW (½)</b> <b>GLC 2OW (½)</b> <b>Technology</b>  <b>1 mandatory credit:</b> <b>SNC 2L1</b>  <b>+2 electives of the student’s choice</b>	<b>Semester 1:</b> <b>3 credit package:</b>  <b>ENG3E1</b> <b>BMX 3E1</b> <b>GWL 3O1</b>  <b>Semester 2:</b>  <b>2 credit supported COOP</b>  <b>1 mandatory credit:</b>  <b>MEL 3E1</b>  <b>+2 electives</b>	<b>2 credit supported COOP</b> <b>GLN 4O1</b>  <b>2 credit supported COOP</b> <b>HIP 4O1</b>  <b>OLC 4O1</b>  <b>+1 elective (optional if all other credits have been achieved)</b>

## **WORK INTERNSHIP COURSE DESCRIPTIONS**

### **ENG 1LW - English**

Grade 9 Work Internship

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

### **MAT 1LW - Mathematics**

Grade 9 Work Internship

This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in Grade 10 LDCC course, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills to solving authentic, everyday problems. Students have opportunities to further 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. **Recommendation: Students who are working at or below a Grade 8 level. Students who achieved less than 50% in Grade 8 math.**

### **SNC1LW - Science**

Grade 9 Work Internship

This course enables students to deepen their knowledge and understanding of the basic concepts in biology, chemistry, earth and space science, and physics; to develop practical skills in science investigation; and to apply their knowledge and skills to everyday situations. Students conduct investigations into practical problems and issues related to sustainable ecosystems and human activity, the structure and properties of elements and compounds, static and current electricity, and astronomy and space exploration. A variety of hands-on activities assist students to acquire concepts. Students will use different reporting strategies to facilitate the development of communications skills.

### **CGC 1P1 – Issues in Canadian Geography**

Grade 9 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 will 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.

### **FSF 141 - French**

Grade 9 Locally Developed

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

### **TIJ 1O1 - Exploring Technologies**

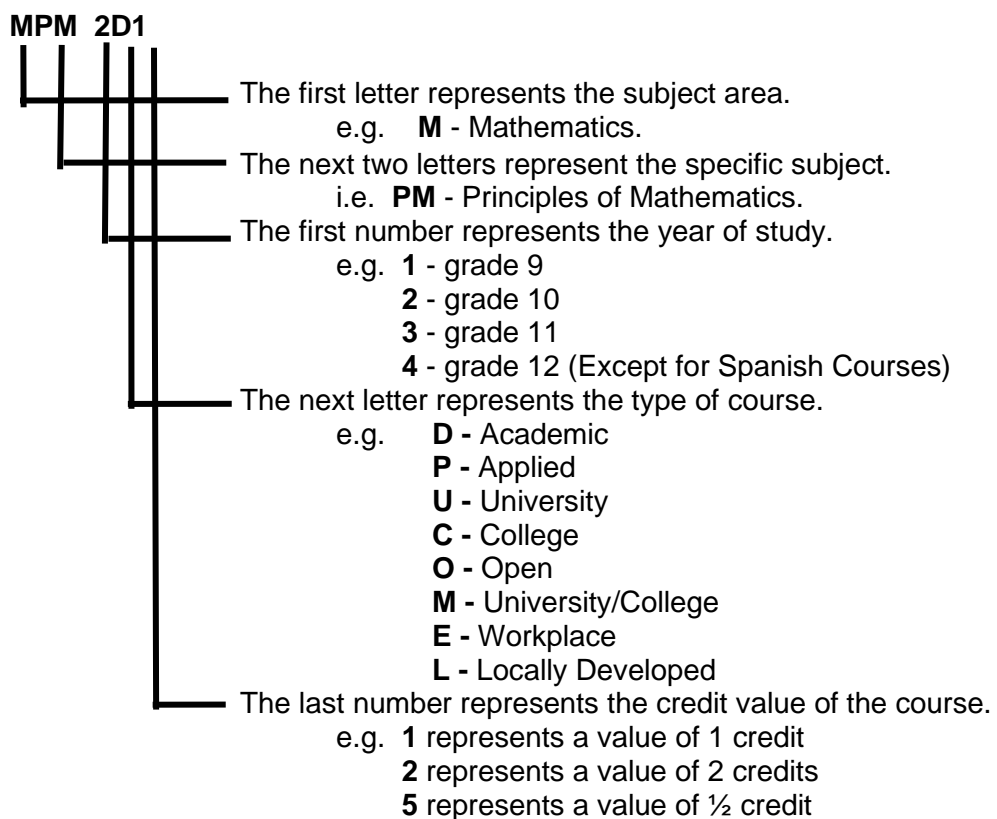
Grade 9 Open

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

## **A GUIDE TO UNDERSTANDING THE COURSE CODE**

**COURSE CODES:**

**Example MPM 2D1**





## **International Certificate Program**

The International Certificate Program is an exciting new program that provides high school students with the opportunity to become engaged global citizens, learn about the world, and develop intercultural competency skills to prepare for the future. There are 5 components to the program. Students earn the certificate by:

- studying an international language,
- participating in various intercultural workshops,
- exploring global issues in classes that have an international focus,
- participating in international engagement either locally or abroad, and
- presenting their reflection portfolio.

A teacher advisor at the school helps to support the ICP students and track their progress in their program as they engage in workshops, and international learning opportunities. Students will receive the TVDSB International Certificate Program certification in grade 12 upon successful completion of the required components.

Contact Student Services for more information and to register for 2022/2023.

## COURSE DESCRIPTIONS

### ART

#### MEDIA ARTS

##### AWQ 201 – Photography

Grade 10 Open

This course begins with the origins and historical development of photography leading to the evolution of photography as an art form. Students will receive instruction and practice in camera handling and photo editing. This course emphasizes digital manipulation and elements of design. Using digital SLR cameras, students will learn camera operation, composition, computer photo manipulation, and creative expression. Other units will focus on pinhole cameras and stop motion animation. Upon completion, students should be able to successfully shoot, digitally manipulate and print a well-conceived composition.

**Prerequisite: None**

##### ASM 3M1 - Media Arts

Grade 11 University/College Preparation

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

**Prerequisite: Any Grade 9 or 10 course in the Arts**

##### ASM 4M1 - Media Arts

Grade 12 University/College Preparation

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

**Prerequisite: ASM 3M1**

#### VISUAL ARTS

##### AVI 101 - Visual Arts

Grade 9 Open

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

#### FNMI ART

##### NAC 101 - Expressions of First Nations, Métis, and Inuit Cultures

Grade 9 Open

This course explores various arts disciplines (dance, drama, installation and performance art, media arts, music, storytelling, utilitarian or functional art, visual arts), giving students the opportunity to create, present, and analyse art works, including integrated art works/productions, that explore or reflect First Nations, Métis, and Inuit perspectives and cultures. Students will examine the interconnected relationships between art forms and individual and cultural identities, histories, values, protocols, and ways of knowing and being. They will demonstrate innovation as they learn and apply art-related concepts, methods, and conventions, and acquire skills that are transferable beyond the classroom. Students will use the creative process and responsible practices to explore solutions to creative arts challenges.

##### AVI 201 - Visual Arts

Grade 10 Open

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

**Prerequisite: None**

##### AVI 301 - Visual Arts

Grade 11 Open

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.

**Prerequisite: None**

##### AVI 3M1 - Visual Arts

Grade 11 University/College Preparation

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

**Prerequisite: AVI 101 or AVI 201**

## **AVI 4E1**

Grade 12 Workplace Preparation

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

**Prerequisite:** AVI 3O1

## **AVI 4M1 - Visual Arts**

Grade 12 University/College Preparation

This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables 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

# **BUSINESS**

## **ACCOUNTING**

### **BAF 3M1 - Introduction to Financial Accounting**

Grade 11 University/College Preparation

This course introduces students to the fundamental principles and procedures of accounting, with emphasis on accounting procedures used in service and merchandising businesses. Students will develop an understanding of the connections between financial analysis, control, and decision making in the management of a business, as well as the effects of technology and globalization on accounting procedures and the role of the accountant.

**Recommended as preparation for university programs involving Accounting.**

### **BAT 4M1 - Principles of Financial Accounting**

Grade 12 University/College Preparation

This course emphasizes study of accounting principles related to financial statements. Students will learn about ways in which information in these statements is used in making business decisions, and about the effects on financial statements of using different methods of inventory valuation and adjusting and reversing entries. Students will also study various means of financing a business and ways in which the strength of a corporation can be determined through the reading of its annual report.

**Prerequisite:** BAF 3M1

## **BUSINESS STUDIES**

### **BBI 1O1 - Introduction to Business**

Grade 9 Open

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

helps students develop the business knowledge and skills they will need in their everyday life.

### **BMI 3C1 - Introduction to Marketing**

Grade 11 College Preparation

This course introduces the fundamental concepts of marketing, with an emphasis on in-depth analysis of the influence of changes in the economy and global marketplace, trends and issues, and the impact of technology. Students will analyze the buying patterns of various consumers and the effect of marketing strategies, and will engage in marketing research. Students will also develop and present a marketing plan for a product or event.

### **BBB 4M1 - Introduction to International Business**

Grade 12 University/College Preparation

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

**Prerequisite:** Any University, University/College, or College Preparation course in Business Studies or Canadian and World Studies

### **BOG 4E1 - Becoming a Manager of a Small Business**

Grade 12 Workplace Preparation

This course focuses on the core skills and concepts required to manage a small business. Students will deal with various aspects of operations management, such as inventory, marketing, financial issues, communication, and human resources. Students will also explore the challenges facing small businesses, including hiring and training, motivating employees, and complying with legal requirements.

**Pre-requisite:** None

## **BUSINESS WITH INDIGENOUS FOCUS**

### **BDI 3CF/BDV 4CF – Aboriginal Entrepreneurship**

Grade 11 & 12 College Preparation

The Aboriginal Youth Entrepreneurship Program (AYEP) is designed to improve Aboriginal students' proficiency in academics and information and communications technology, while learning leadership and technology skills. Using innovative hands-on activities, guest speakers, and business mentors, Aboriginal students learn how to create a product or service-based business. The content includes teaching students about: selection of a business venture, awareness of legal requirements, development of a business plan, knowledge of accounting principles, managing a business, fundamentals of marketing and the importance of philanthropy

**Prerequisite:** None

## **BUSINESS - COMPUTER SCIENCE**

### **ICS 2O1 - Computer and Information Science**

Grade 10 Open

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

### **ICS 3C1 - Computer and Information Science Grade 11 University/College Preparation**

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

**Note: ICS 2O1 strongly recommended**

## **BUSINESS - COMPUTER STUDIES**

### **BTA 3O1 - Information Technology Applications in Business**

Grade 11 Open

This course provides students with the opportunity to develop the information technology skills such as animation, movie making, web page design and computer skills required in a business. Students will learn about the information technology work environment, use industry-standard software, conduct electronic research, investigate electronic business, and explore occupations and post-secondary programs that require information technology skills. **Software used includes:; Flash, Dreamweaver, HTML, and Microsoft Office (Word, Excel, Access, PowerPoint).**

### **BTX 4C1 - Information Technology in Business**

Grade 12 College Preparation

This course provides students with the opportunity to develop further the information technology knowledge and skills needed in the business world. Students will develop their understanding of electronic business environments, improve their skills in electronic research and in using business application software in the preparation of business documents, manage information, and apply project team management strategies.

**Prerequisite: BTA 3O1**

## **COOPERATIVE EDUCATION**

Through Thames Valley's community partnerships, students who become involved with cooperative education and experiential learning can earn 2 or 4 high school credits while sharpening their essential skills and gaining valuable work experience with local businesses.

### **COOP (The course code for Co-op is COOP).**

#### **Cooperative Education ½ day or all day**

A co-op placement can be completed in **almost any subject area**, and consists of both classroom and workplace activities. The course is designed to enhance a student's skills and knowledge, while developing a pathway to the workplace, college or university destination by offering a 2 credit (1/2 day) or 4 credit (all day) programming option. A maximum of 2 Co-op credits in Cooperative Education can count as compulsory credits. Cooperative Education opportunities are available in a variety of areas. Students must apply for the program by filling out a **Student Application** form. Space in the program is limited, and acceptance is by **Student Application** and **Interview** only, either through the Guidance Department or Co-op Department Head. Students may be asked to arrange and secure their own co-op placement prior to the beginning of the semester.

### **Ontario Youth Apprenticeship Program (OYAP)**

Ontario Youth Apprenticeship Program (OYAP) is a specialized program that will provide secondary school students the opportunity to train as an apprentice while still enrolled in high school. OYAP students accumulate hours and master skills towards a Certificate of Qualification in a skilled profession at the same time as they earn their Ontario Secondary School Diploma (OSSD). OYAP gives high school students a head start on becoming skilled professionals and making a smooth transition into their post-secondary education.

#### **Students interested in OYAP must:**

- be 16 years of age and have successfully completed 16 credits
- be enrolled as a full time student
- demonstrate competency in the trade related subject(s)
- demonstrate a serious attitude and commitment to their apprenticeship goal
- plan their courses carefully so that all graduation requirements are met
- must have a social insurance number

Through the program, students can explore a variety of job sectors **including service, manufacturing, automotive, and construction**. OYAP ensures everyone involved reaps benefits.

#### **Students benefit by:**

- receiving local training and local employment opportunities
- starting an apprenticeship at an earlier age
- developing both specialized and general employability skills
- understanding employer expectations in the work world
- earning high school credits while receiving on the job training
- acquiring valuable apprenticeship hours while still in school

#### **Employers benefit by:**

- observing the student before making a permanent commitment
- training students in accordance with their company's policies and procedures
- providing employment opportunities to area youth
- developing apprentices to help meet the skilled trade shortage
- qualifying for wage subsidy programs (trade dependent)

**To enrol in any of the above noted programs, see your Guidance Counsellor or Co-operative Education Department Head.**

## **DRAMA**

### **ADA 1O1 - Dramatic Arts**

Grade 9 Open

This course provides opportunities for students to explore dramatic forms and techniques, using material from a wide range of sources and cultures. Students will use the elements of drama to examine situations and issues that are relevant to their lives. Students will create, perform, discuss, and analyze drama, and then reflect on the experience to develop an understanding of themselves, the art form, and the world around them.

### **ADA 2O1 - Dramatic Arts**

Grade 10 Open

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

### **ADA 3M1 - Dramatic Arts**

Grade 11, University/College Preparation

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 1O1 or ADA 2O1

### **ADA 4M1 - Dramatic Arts**

Grade 12, University/College Preparation

This course requires students to experiment individually and collaboratively with forms and conventions of both drama and theatre from various cultures and time periods. Students will interpret dramatic literature and other text and media sources while learning about various theories of directing and acting. Students will examine the significance of dramatic arts in 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

## **ENGLISH**

### **ENG 1D1 - English**

Grade 9 De-streamed

This course emphasizes analytic reading, writing, oral communication, and thinking skills that students need for success in secondary school programs and their daily lives. Students will study and interpret texts from contemporary and historical periods, including plays, short stories, and short essays, and will investigate and create media works. An important focus will be the correct and effective use of spoken and written language.

### **ENG 1L1 - English**

Grade 9 Locally Developed

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

### **ENG 2D1 - English**

Grade 10 Academic

This course extends the range of analytic, reading, writing, oral communication, and thinking skills that students need for success in secondary school academic programs. Students will study and interpret challenging texts from contemporary and historical periods, including novels, poems, plays, and opinion pieces, and will analyze and create effective media works. An important focus will be the thoughtful use of spoken and written language.

**Prerequisite:** ENG 1D1

### **ENG 2P1 - English**

Grade 10 Applied

This course extends the range of key reading, writing, oral communication, and thinking skills that students need for success in all areas of the curriculum. Students will study novels, poems, magazines, and reports, and will describe, design, and produce effective media works. An important focus will be the clear and coherent use of spoken and written language.

**Prerequisite:** ENG 1D1 or ENG 2D1

### **ENG 2L1 - English**

Grade 10 Locally Developed

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

**Prerequisite:** Any Grade 9 English credit

### **ENG 3U1 - English**

Grade 11 University Preparation

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will analyze challenging texts from various periods; conduct research and analyze the information gathered; write persuasive and literary essays; and analyze the relationship among media forms, audiences, and media industry practices. An important focus will be on understanding the development of the English language.

**Prerequisite:** ENG 2D1

### **ENG 3C1 - English**

Grade 11 College Preparation

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will study the content, form, and style of informational texts and literary works from Canada and other countries; write reports, correspondence, and persuasive essays; and analyze media forms, audiences, and media industry practices. An important focus will be on establishing appropriate voice and using business and technical language with precision and clarity.

**Prerequisite:** ENG 2D1 or ENG 2P1



### **ENG 3E1 - English**

Grade 11 Workplace Preparation

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will study the content, form, and style of informational texts and literary works; write explanations, letters, and reports; and investigate the connections among media forms, audiences, and media industry practices. An important focus will be on using language clearly, accurately, and effectively in a variety of contexts.

**Prerequisite:** ENG 2P1 or ENG 2L1

### **ENG 4U1 - English**

Grade 12 University Preparation

This course emphasizes consolidation of literacy, critical thinking, and communication skills. Students will analyze a range of challenging texts from various time periods, countries, and cultures; write analytical and argumentative essays and a major paper for an independent literary research project; and apply key concepts to analyze media works. An important focus will be on understanding academic language and using it coherently and confidently in discussion and argument.

**Prerequisite:** ENG 3U1

### **ENG 4C1 - English**

Grade 12 College Preparation

This course emphasizes consolidation of literacy, critical thinking, and communication skills. Students will analyze informational texts and literary works from various time periods, countries, and cultures; write research reports, summaries, and short analytical essays; complete an independent study project; and analyze the interactions among media forms, audiences, and media industry practices. An important focus will be on establishing appropriate style and using business and technical language effectively.

**Prerequisite:** ENG 3U1 or ENG 3C1

### **EWC 4U1 - The Writer's Craft**

Grade 12 University Preparation

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

**Prerequisite:** ENG 3U1

### **EWC 4C1 - The Writer's Craft**

Grade 12 College Preparation

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

**Prerequisite:** ENG 3C1 or ENG 3U1

### **ENG 4E1 - English**

Grade 12 Workplace Preparation

This course emphasizes consolidation of literacy, critical thinking, and communication skills. Students will study informational texts and literature from various countries and

cultures; write summaries, reports, resumes, and short essays; complete an independent research project; and explain the connections among media forms, audiences, and media industry practices. An important focus will be on using specialized language related to the workplace accurately and coherently in appropriate contexts.

**Prerequisite:** ENG 3E1

### **OLC 4O1 - Ontario Secondary School Literacy Course**

Grade 12 Open

This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test. 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.

**Eligibility:** Students who have been eligible to write the Ontario Secondary School Literacy Test (OSSLT) at least twice, and have been unsuccessful at least once, are eligible to take this course to achieve both a Grade 12 credit and their literacy credential for graduation.

**Prerequisite:** Principal's permission.

## **GEOGRAPHY**

### **CGC 1D1 – Issues in Canadian Geography**

Grade 9 De-streamed

This course draws on a variety of frameworks, such as the ecozone framework, and principles of physical, human, and economic geography, to explore Canada's distinct and evolving character. Students will investigate the interconnections among the landforms, climate, soils, plants, animals, and human activities in Canadian ecozones to develop geographic knowledge and skills that contribute to an understanding of Canada's diversity and its role in the world.

### **CGF 3M1 - Forces of Nature: Physical Processes & Disasters**

Grade 11 University/College Preparation

This course examines Earth's physical patterns and processes and how they create natural disasters and can contribute to human disasters. Students will explore how physical processes related to Earth's water, land, and air, as well as interactions between these systems, can affect the planet and its people. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate Earth's natural processes, to make predictions related to natural disasters, and to create plans to prepare for and/or respond to them.

**Prerequisite:** CGC 1D1 or CGC 1P1

**CGG 301 - Travel and Tourism: A Geographic Perspective**  
Grade 11 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

**CGW 4C1 – World Issues: A Geographic Analysis**  
Grade 12 College Preparation

This course explores many difficult challenges facing Canada and the world today – challenges such as unequal access to food, water, and energy; urbanization; globalization; and meeting the needs of a growing world population while ensuring the sustainability of the natural environment. Students will explore these and other world issues from environmental, social, economic, and political perspectives, while applying the concepts of geographic thinking, the geographic enquiry process, and spatial technologies to guide and support their investigations.

**Prerequisite:** CGC 1D1 or CGC 1P1

**CGW 4U1 - World Issues: A Geographic Analysis**  
Grade 12 University Preparation

This course looks at the global challenge of creating a more sustainable and equitable world. Students will explore a range of issues involving environmental, economic, social, and geopolitical interrelationships, and will examine governmental policies related to these issues. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate these complex issues, including their impact on natural and human communities around the world.

**Prerequisite:** Any University or University/College Preparation course in Canadian and World Studies, English, or Social Sciences and Humanities

**CGU 4M1 - World Geography: Urban Patterns and Population Issues**

Grade 12 University/College Preparation

This course explores global population distribution, why people live where they do, and variations in their quality of life. Students will examine current population patterns and trends related to urbanization and their impact on human and natural systems. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate issues related to urban life and will propose courses of action aimed at enhancing the sustainability of cities around the world.

**Prerequisite:** Any University, University/College, or College Preparation course in Canadian and World Studies, English, or Social Sciences and Humanities

## GUIDANCE

**GLC205 - Career Studies (½ Credit)**

Grade 10 Open

This course teaches students how to develop and achieve personal goals in education and work and contribute to their communities. Student learning will include assessing their own

knowledge, skills, and characteristics and investigating economic trends, workplace organization, work opportunities, and ways to search for work. The course explores postsecondary learning options, prepares students for community-based learning, and helps them build the capabilities needed for managing work and life transitions. Students will design action plans for pursuing their goals through career profiles, occupational research and resume writing.

**GLE10/GLE20 - Learning Strategies 1: Skills for Success in Secondary School**

Grade 9/10 Open

This course explores learning strategies and helps students become better, more independent learners while increasing their personal management skills, both in school and in other contexts. Students will learn how to develop and apply a range of strategies to improve their learning and achievement, particularly their literacy, numeracy, communication, and planning skills. This course will increase students' confidence, motivation, and ability to learn.

**Prerequisite:** Recommendation by School Team, Resource or Guidance.

**GPP 301 - Leadership Development**

Grade 10/11 Open

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

Acceptance into course is by interview.

## HISTORY

**CHC 2D1 - Canadian History since World War I**

Grade 10 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.

**Prerequisite:** None

**CHC 2P1 - Canadian History since World War I**

Grade 10 Applied

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

**Prerequisite:** None

**CHC 2L1 - Canadian History since World War I**

Grade 10 Locally Developed

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

**Prerequisite: None****CHV2O5 - Civics and Citizenship (½ credit)**

Grade 10 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.

**Prerequisite: None****CHT 3O1 - World History, Since 1900: Global and Regional Interactions**

Grade 11 Open

This course focuses on the major developments in world history from 1900 to the present. Students will explore the causes and consequences of global and regional conflicts as well as responses to social, economic, and political developments in various countries and regions. 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 historical developments and events, including those that continue to affect people in various parts of the world.

**Prerequisite: any Grade 10 History****CHW3M1 - World History to the End of the Fifteenth Century (Ancient Civilizations)**

Grade 11 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 3M1 - Understanding Canadian Law**

Grade 11 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.

**Prerequisite: CHC 2D1 or CHC 2P1****CHM 4E1 - Adventures in World History**

Grade 12 Workplace Preparation

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

**Prerequisites: Any Grade 10 History****CHY4C1 - World History since the Fifteenth Century**

Grade 12 College Preparation

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

**Prerequisite: Any University, University/College, or College Preparation course in Canadian and World Studies, English, or Social Sciences and Humanities****CHY 4U1 - World History since the Fifteenth Century**

Grade 12 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: Any University or University/College Preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.****CLN4C1 – Legal Studies**

Grade 12 College Preparation

This course provides a foundation for students who wish to pursue a career that requires an understanding of law. Students will explore the importance of law, analyzing contemporary legal issues and their relevance to daily life. They will investigate the requirements for various law-related careers as well as legal responsibilities in the workplace. Students will apply the concepts of legal thinking and the legal studies inquiry process to investigate their rights and responsibilities, legal processes and structures, and the role of law in a changing society.

**Prerequisite: Civics and Citizenship, Grade 10, Open**

### **CLN 4U1 - Canadian and International Law**

Grade 12 University Preparation

This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop their understanding of the principles of Canadian and international law when exploring rights and freedoms within the context of topics such as religion, security, cyberspace, immigration, crimes against humanity, and environmental protection. Students will apply the concepts of legal thinking and the legal inquiry process when investigating these issues in both Canadian and international contexts, and they will develop legal reasoning skills and an understanding of conflict resolution in the area of international law.

**Prerequisite:** Any University or University/College Preparation course in Canadian and World Studies, English, or Social Sciences and Humanities

### **HZT 4U1 - Philosophy: Questions & Theories**

Grade 12 University Preparation

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

**Prerequisite:** Any University or University/College Preparation course in Social Science and Humanities, English, or Canadian and the World Studies

## **FIRST NATIONS, MÉTIS, & INUIT STUDIES**

### **NAC 101 - Expressions of First Nations, Métis, and Inuit Cultures**

Grade 9 Open

This course explores various arts disciplines (dance, drama, installation and performance art, media arts, music, storytelling, utilitarian or functional art, visual arts), giving students the opportunity to create, present, and analyse art works, including integrated art works/productions, that explore or reflect First Nations, Métis, and Inuit perspectives and cultures. Students will examine the interconnected relationships between art forms and individual and cultural identities, histories, values, protocols, and ways of knowing and being. They will demonstrate innovation as they learn and apply art-related concepts, methods, and conventions, and acquire skills that are transferable beyond the classroom. Students will use the creative process and responsible practices to explore solutions to creative arts challenges.

**Prerequisite:** None

**Note:** NAC 101 fulfills the requirement for a compulsory Grade 9 Arts credit

### **NAC 201 – Aboriginal Peoples in Canada**

Grade 10 Open

This course emphasizes historical and contemporary issues that affect the relationship between Aboriginal peoples and Canadian governments. Students will examine legal, political, social, and economic issues; key aspects of the Indian Act and its revisions that have an impact on the daily lives of Aboriginal persons; the different types of relationships that Aboriginal peoples have established with other nations throughout history; and the methodology of historical inquiry.

**Prerequisite:** None

### **NBV 3E1 – World Views & Aspirations of First Nations, Métis, and Inuit Communities in Canada**

Grade 11 Workplace Preparation

This course focuses on the beliefs, values, and aspirations of Aboriginal peoples in Canada. Students will examine issues of identity facing Indigenous, Métis, and Inuit peoples, and their relationships to land and nature, as well as to one another within their communities and working environments. Students will also learn how traditional and contemporary beliefs and values influence the present day aspirations and actions of Aboriginal peoples.

**Prerequisite:** NAC 201, CHC 2D1 or CHC 2P1

### **NBV 3C1 - World Views & Aspirations of First Nations, Métis, and Inuit Communities in Canada**

Grade 11 College Preparation

This course focuses on the beliefs, values, and aspirations of Aboriginal peoples in Canada. Students will examine world views of Aboriginal peoples and the political, economic, cultural, and social challenges facing individuals and communities. Students will also learn how traditional and contemporary beliefs and values influence the aspirations and actions of Aboriginal peoples.

**Prerequisite:** NAC 201, CHC 2D1 or CHC 2P1

### **NDA 3M1 – Current Aboriginal Issues in Canada**

Grade 11 University/College Preparation

This course focuses on existing and emerging issues of importance to Aboriginal peoples in Canada. Students will investigate issues related to identity, relationships among Aboriginal peoples and between Aboriginal peoples and other Canadians, sovereignty principles as presented by Aboriginal peoples, and the contemporary challenges posed by these issues. Students will also examine such topics as language preservation, the responsibilities of Aboriginal women and men, and the need for dialogue between Aboriginal and non-Aboriginal peoples.

**Prerequisite:** NAC 201, CHC 2D1 or CHC 2P1

### **NDW 4M1 – Issues of Indigenous Peoples in a Global Context**

Grade 12 University Preparation

This course provides students with an overview of the issues and challenges that confront indigenous peoples worldwide. Students will develop an understanding of the concerns and aspirations of the world's indigenous population, plan and conduct research on global issues that have an impact on indigenous peoples, and use information technology to consult materials related to the views of indigenous peoples throughout the world.

**Prerequisite:** Any Grade 11 university, university/college, or college preparation course in Native Studies.

# MATHEMATICS

In Mathematics, it is critical that the student is in the appropriate course. A student's likelihood of failure is dramatically increased and there is little a teacher can do to bring that student along, if he or she is in a course that is clearly too difficult for them. Before choosing next year's math course, students and parents need to do three things:

1. Look at last year's math mark. If the mark is less than 60%, there is a good chance that the student will not be successful in the same level of the next grade.
2. Take the recommendations for course placement, that were in the math comment on the students' report card, very seriously. Call the teacher, if you are unsure.
3. Have a clear idea of what math courses are required for the student's post-secondary goals.

## MTH 1W1

Grade 9 – De-streamed

This course enables students to consolidate, and continue to develop, an understanding of mathematical concepts related to number sense and operations, algebra, measurement, geometry, data, probability, and financial literacy. Students will use mathematical processes, mathematical modelling, and coding to make sense of the mathematics they are learning and to apply their understanding to culturally responsive and relevant real-world situations. Students will continue to enhance their mathematical reasoning skills, including proportional reasoning, and algebraic reasoning, as they solve problems and communicate their thinking.

## MAT 1L1 - Mathematics

Grade 9 Locally Developed

This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in Grade 10 LDCC course, and in the Mathematics Grade 11 and Grade 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills to solving authentic, everyday problems. Students have opportunities to further 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. **Recommendation: Students who are working at or below a Grade 8 level. Students who achieved less than 50% in Grade 8 math.**

## MPM 2D1 - Principles of Mathematics

Grade 10 Academic

This course enables students to broaden their understanding of relations, extend their skills in multi-step problem solving, and continue to develop their abilities in abstract reasoning. Students will pursue investigations of quadratic functions and their applications; solve and apply linear systems; solve multi-step problems in analytic geometry to verify properties of geometric figures; investigate the trigonometry of right and acute triangles; and develop supporting algebraic skills.

**Prerequisite: MPM 1D1**

## MFM 2P1 - Foundations of Mathematics

Grade 10 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; 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

Grade 10 Locally Developed

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

**Prerequisite: A Grade 9 Mathematics credit**

## MCR 3U1 - Functions

Grade 11 University Preparation

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

**Prerequisite: MPM 2D1**

## MCF 3M1 - Functions and Applications

Grade 11 University/College Preparation

This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in 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 for College Mathematics

Grade 11 College Preparation

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations, as well as of measurement and geometry; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; and develop their ability to reason by collecting, 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**

Grade 11 Workplace Preparation

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

**Prerequisite: MPM 2D1, MFM 2P1, or MAT 2L1****MCV 4U1 - Calculus and Vectors**

Grade 12 University Preparation

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of 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: MCV 4U1 can be taken at the same time as MHF 4U1 or after completing MHF 4U1. Students may not take MCV 4U1 before MHF 4U1****MDM 4U1 - Mathematics of Data Management**

Grade 12 University Preparation

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

**Prerequisite: MCF 3M1 or MCR 3U1****MHF 4U1 - Advanced Functions**

Grade 12 University Preparation

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

**Prerequisite: MCR 3U1 or MCT 4C1****MAP 4C1 - Foundations for College Mathematics**

Grade 12 College Preparation

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: MBF 3C1****MCT 4C1 - Mathematics for College Technology**

Grade 12 College Preparation

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

**Prerequisite: MCF 3M1****MEL 4E1 - Mathematics for Work & Everyday Life**

Grade 12 Workplace Preparation

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**

# MODERN LANGUAGES

## FRENCH

### FSF 141 - French

Grade 9 Local - Beginner

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

**Enrolment by recommendation ONLY. This course is intended for students with little or no previous French instruction, or those who struggle significantly with French.**

### FSF 1D1 - French

Grade 9 De-streamed

This course emphasizes the further development of oral communication, reading, and writing skills. Students will build on and apply their knowledge of French while exploring a variety of themes, such as relationships, social trends, and careers. Thematic readings, which include a selection of short stories, articles, and poems, will serve as stepping stones to oral and written activities.

### FSF 2D1 - French

Grade 10 Academic

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 or FSF 1P1**

### FSF 2P1 - French

Grade 10 Applied

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

**Prerequisite: FSF 1D1 or FSF 1P1**

### FSF 3U1 - French

Grade 11 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**

### FSF 4U1 - French

Grade 12 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 3U1**

## SPANISH

### LWS BD1- Spanish

Grade 10 Academic

This course provides students with the language learning experiences that will enable them to communicate in Spanish. Students will continue to develop and apply their speaking skills in a variety of contexts, and will participate in activities that will improve their reading comprehension and writing skills. They will also continue to explore aspects of the culture of countries where Spanish is spoken by taking part in community-sponsored events and activities involving both print and technological resources. Although students will continue to expand their vocabulary and repertoire of language structures, the language they will use at this level will still be simple.

### LWS CU1- Spanish

Grade 11 University Preparation

This course offers students opportunities to further develop their knowledge of Spanish and to enhance their communication skills. Students will use increasingly sophisticated language in a variety of activities that will enable them to speak and write with clarity and accuracy. Students will also enhance their thinking skills through the critical study of literature, and continue to explore aspects of the culture of countries where Spanish is spoken through a variety of print and technological resources.

**Prerequisite: LWS BD1**

### LWS DU1- Spanish

Grade 12 University Preparation

This course prepares students for university studies in Spanish. Students will enhance their ability to use the language with clarity and precision, and will develop the language skills needed to engage in sustained conversations and discussions, understand and evaluate information, read diverse materials for both study and pleasure, and write clearly and effectively. Students will also have opportunities to add to their knowledge of the culture of countries where Spanish is spoken through the use of community resources and computer technology.

**Prerequisite: LWS CU1**

# MUSIC

## GUITAR

### **AMG 101 - Guitar - Classical**

Grade 9 Open

This is an introductory course to guitar. (See AMU101 description).

### **AMG 201 - Guitar - Classical**

Grade 10 Open

This is a second year guitar course. (See AMU 201 description).

**Prerequisite: AMG 101**

### **AMG 3M1 - Guitar - Classical**

Grade 11 University/College Preparation

This course emphasizes the performance, analysis and appreciation of various kinds of music, for the guitar. Students will perform technical exercises and appropriate repertoire, complete creative activities and analyze both live and recorded performances. They will continue to develop their understanding of the elements of music, through the study of baroque and classical music, while developing their technical and imaginative abilities.

**Prerequisite: AMG 201**

### **AMG 4M1 - Guitar - Classical**

Grade 12 University/College Preparation

This course continues from grade 11 and emphasizes performance of music at the senior level. Along with participation in creative activities and listening perceptively, students will be required to develop an understanding of the language of music. This course emphasizes the appreciation, analysis and performance of music from the romantic period and the twentieth century, including art music, jazz, popular music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects.

**Prerequisite: AMG 3M1**

### **AME 4M1 – Guitar - Rock**

Grade 12 College Preparation

This course will have several clear and relevant areas of focus; rock guitar technique improvisation, ensemble playing, ear training, analysis, modern music theory and an understanding of the relationship between the guitar fret board, notation, and tablature. In addition, the course would offer a specific skill set for music writing, producing and recording. Taught through a medium and musical genre different from the traditional “band instrument” or “classical approach”, this course will invite students who have demonstrated an interest in the many facets of music-industry arts programs.

**Prerequisite: AMG 101 and AMG 201 and AMG 3M1**

## VOCAL

### **AMV 101 – Vocal**

Grade 9 Open

This is an introductory course to vocal music (See AMU 101 description).

### **AMV 201 – Vocal**

Grade 10 Open

This is a second year vocal course (see AMU 201 description)

### **AMV 3M1 – Vocal**

Grade 11 College/University Preparation

This course emphasizes the performance, analysis and appreciation of various kinds of music for the voice. Students will perform technical exercises and appropriate repertoire, complete creative activities, and analyze both live and recorded performances. They will continue to develop their understanding of the elements of music through the study of baroque and classical music, while developing their technical and imaginative abilities.

**Prerequisite: AMV 201**

### **AMV 4M1 – Vocal**

Grade 12 College/University Preparation

This course continues from Grade 11. This course emphasizes the performance, analysis, and appreciation of various kinds of music for the voice. Students will demonstrate foundational techniques, perform technical exercises and appropriate repertoire, complete creative activities, and analyze both live and recorded performances. Students will continue to develop their understanding of the elements of music through the study of contemporary music, while developing their technical and imaginative abilities.

**Prerequisite: AMV 3M1**

## INSTRUMENTAL

### **AMU 101 - Music - Instrumental/Winds & Percussion**

Grade 9 Open

This course emphasizes the creation and performance of music at a level consistent with previous experience and is aimed at developing technique, sensitivity, and imagination. Students will develop musical literacy skills by using the creative and critical analysis process in composition, performance and a range of reflective and analytical activities. Students will develop an understanding of the conventions and elements of music and of safe practices related to music, and will develop a variety of skills transferable to other areas of their life.

### **AMU 201 - Music - Instrumental/Winds & Percussion**

Grade 10 Open

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

### **AMU 3M1 - Music - Instrumental/Winds and Percussion**

Grade 11 University/College Preparation

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

**Prerequisite: AMU 101 or AMU 201**



### **AMU 4M1 - Music - Instrumental/Winds & Percussion**

Grade 12 University/College Preparation

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

**Prerequisite:** AMU 3M1

### **AMT 3M1 Clarke Road Musical Theatre – Musical Revue**

Grade 11 University/College Preparation

This course provides students with opportunities to develop their musical skills through the creation, rehearsal and performance of a major musical revue in early May for the London Community. Students will also be involved in musical outreach tours and complete independent & group work involving the planning, marketing and producing of a show. Students will explore all facets of putting together a production but will focus on at least one of the following: instrumental performance (member of the pit band), vocal performance, sound and lighting design, or musical arranging. Extra-curricular rehearsals are a requirement for the course and become crucial as the show date approaches.

Students who select this course on their registration form will need to complete an application package, audition and interview for admission before being accepted to the program.

### **AMT 4M1 Clarke Road Musical Theatre – Musical Revue**

Grade 12 University/College Preparation

This course provides students with opportunities to develop their musical skills through the creation, rehearsal and performance of a major musical revue in early May for the London Community. Students will also be involved in musical outreach tours and complete independent & group work involving the planning, marketing and producing of a show. Students will explore all facets of putting together a production but will focus on at least one of the following: instrumental performance (member of the pit band), vocal performance, sound and lighting design, or musical arranging. Extra-curricular rehearsals are a requirement for the course and become crucial as the show date approaches.

**Prerequisite:** AMT 3M1

## **BAND**

### **AMR 2OB - Music Repertoire/Band (Part I)**

#### **AMR 3OB (Part II)**

Grade 10/11 Open

These ½ credit courses utilize the study of band repertoire, at an advanced level, to enrich and expand the experience of the students in instrumental classes. Many different techniques, including recording, public performance and clinics will be utilized to develop a more thorough appreciation of the many roles of music within the Canadian cultural landscape.

## **CHOIR**

### **AMR 2OC – Repertoire/Choir (Part I)**

#### **AMR 3OC (Part II)**

Grade 10 Open

These ½ credit courses utilize the study of choral repertoire, at

an advanced level, to enrich and expand the experience of the students already enrolled in AMV. Many different techniques, including recording, public performance and clinics will be utilized to develop a more thorough appreciation of the many roles of music within the Canadian cultural landscape.

**Prerequisite:** Must be also registered in a vocal course.  
**Sign up in the Music Department**

## **GUITAR ENSEMBLE/ROCK BAND**

### **AMR 2OG - Music Repertoire/Guitar Ensemble/Rock Band (Part I)**

#### **AMR 3OG (Part II)**

Grade 10/11 Open

These ½ credit courses utilize the study of guitar repertoire, at an advanced level, to enrich and expand the experience of the students in guitar classes. Many different techniques, including recording, public performance and clinics will be utilized to develop a more thorough appreciation of the many roles of music within the Canadian cultural landscape.

## **PHYSICAL EDUCATION & HEALTH**

### **PPL 1OF - Healthy Active Living Education (Female)**

#### **PPL 1OM - Healthy Active Living Education (Male)**

Grade 9 Open

This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. Students will investigate; connections to holistic health: physical, mental, emotional, and spiritual; the benefits, risks and safe use of technology; pregnancy and STI prevention and thinking ahead about issues surrounding sexual health.

### **PPL 2OF - Healthy Active Living Education (Female)**

#### **PPL 2OM - Healthy Active Living Education (Male)**

Grade 10 Open

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. Students will investigate; nutritional implications of dietary choices and trends; factors that enhance mental health and emotional and spiritual well-being; the consequences of substance use and addiction and the effect on health and well-being; healthy sexuality and misconceptions related to sexuality.

**PPL 30F - Healthy Active Living Education (Female)****PPL 30M - Healthy Active Living Education (Male)**

Grade 11 Open

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and a broader range of activity settings, students enhance their movement competence, personal fitness and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. Students will investigate; mental illness, addictions – causes, manifestations, and effects on personal health and well-being; suicide warning signs and prevention strategies; reproductive and sexual health proactive health measures.

**PAF 30F - Physical and Health Education (Female)****PAF 30M - Physical and Health Education (Male)**

Grade 11 Open

This course focuses on the development of a healthy lifestyle and participation in a variety of fitness training activities that have the potential to engage students' interest throughout their lives. Students will be encouraged to develop competence in a variety of movement skills, and will be given opportunities to practice goal-setting, decision-making, coping, social, and interpersonal skills. Significant emphasis will be placed on developing and maintaining a personal fitness program. Students will explore a variety of training methods with an emphasis on training with weights and cardiovascular fitness. Course content: Strength training theory, training techniques, strength training program application, fitness components, circuit training, medicine ball, plyometrics, anatomy sport injury, nutrition/healthy eating, mental health, decision making, healthy growth/sexuality, careers.

**Registration based on interview.****Cost involved: A nominal fee may be incurred by students for field trips and guest instructors.****PAF 401 - Healthy Active Living Education (co-ed)**

Grade 12 Open

This course will introduce female/male students to the concept of personal responsibility for one's own health and fitness through a variety of vigorous activities and appraisal technique's. Vitality will maximize opportunities for personalized fitness improvement and will include the following activities: Aerobics-Step-Body Sculpt classes, weight training, ice skating, running programs, rollerblading, yoga, spin classes water aerobics and other current fitness trends

**Prerequisite: None****PSK 4U1- Kinesiology**

Grade 12 University Preparation

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

**Prerequisite: Any Grade 11 University or University/College Preparation course in Science, or any Grade 11 or 12 open course in Health and Physical Education.****PLF 4M1 - Recreation and Fitness Leadership (co-ed)**

Grade 12 University/College Preparation

This course focuses on the development of leadership and coordination skills related to recreational activities. Students will acquire the knowledge and skills required to plan, organize, and implement recreational events. They will also learn how to promote the value of physical fitness, personal well-being, and personal safety to others through mentoring. The course will prepare students for college and university programs in recreational, leisure, and fitness leadership.

**Prerequisite: Any Grade 11 or 12 open course in Health and Physical Education****PPL 401- Healthy Active Living Education (co-ed)**

Grade 12 Open

This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. Students will investigate; healthy eating decisions in different contexts; skills and strategies for evolving relationships; strategies to maintain health and well-being when independent; harassment, violence effects and legal implications, and responses; consequences of substance misuse – short term and long term; developing resilience and making healthy choices.

# SCIENCE

## **SNC 1D1 - Science**

Grade 9 De-streamed

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 STEM skills as they use scientific research, scientific experimentation, and engineering design processes to investigate concepts and apply their knowledge in situations that are relevant to their lives and communities. Students will continue to develop transferable skills as they become scientifically literate global citizens.

**Prerequisite: None**

## **SNC1L1 - Science**

Grade 9 Locally Developed

This course enables students to deepen their knowledge and understanding of the basic concepts in biology, chemistry, earth and space science, and physics; to develop practical skills in science investigation; and to apply their knowledge and skills to everyday situations. Students conduct investigations into practical problems and issues related to sustainable ecosystems and human activity, the structure and properties of elements and compounds, static and current electricity, and astronomy and space exploration. A variety of hands-on activities assist students to acquire concepts. Students will use different reporting strategies to facilitate the development of communications skills.

## **SNC 2D1 - Science**

Grade 10 Academic

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

**Prerequisite: SNC 1D1**

## **SNC 2P1 - Science**

Grade 10 Applied

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

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

## **SNC 2L1 - Science**

Grade 10 Locally Developed

This course enables students to deepen understanding of basic concepts in biology, chemistry, earth and space science, and physics; to develop their practical skills in scientific investigation; and to apply their knowledge of science to everyday situations.

A variety of hands-on activities assist students to acquire concepts. Students will use different reporting strategies to facilitate the development of communications skills related to tissues, organs and systems; chemical reactions, climate change and optics.

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

## **SBI 3U1 - Biology**

Grade 11 University Preparation

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

**Prerequisite: SNC 2D1**

## **SBI 3C1 - Biology**

Grade 11 College Preparation

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

**Prerequisite: SNC 2D1 or SNC 2P1**

## **SCH 3U1 - Chemistry**

Grade 11 University Preparation

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

**Prerequisite: SNC 2D1**

## **SPH 3U1 - Physics**

Grade 11 University Preparation

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

**Prerequisite: SNC 2D1**

## **SBI 4U1 - Biology**

Grade 12 University Preparation

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

**Prerequisite: SBI 3U1**

### **SCH 4U1- Chemistry**

Grade 12 University Preparation

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

**Prerequisite:** SCH 3U1

### **SPH 4U1 - Physics**

Grade 12 University Preparation

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

### **SCH 4C1 - Chemistry**

Grade 12 College Preparation

This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use a variety of laboratory techniques, develop skills in data collection and scientific analysis, and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and the effects of technological applications and processes on society and the environment. **Prerequisite:** SNC 2D1 or SNC 2P1

### **SPH 4C1 - Physics**

Grade 12 College Preparation

This course develops students' understanding of the basic concepts of physics. Students will explore these concepts as they relate to mechanical, electrical, fluid (hydraulic and pneumatic), and communications systems, as well as to the operation of commonly used tools and equipment. They will develop scientific-inquiry skills as they verify accepted laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.

**Prerequisite:** SNC 2D1 or SNC 2P1

### **SES 4U1 - Earth and Space Science**

Grade 12 University Preparation

This course develops students' understanding of Earth and its place in the universe. Students will investigate the properties of and forces in the universe and solar system and analyze techniques scientists use to generate knowledge about them. Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and material affect their daily lives. The

course draws on biology, chemistry, physics, and mathematics in its consideration of geological and astronomical processes that can be observed directly or inferred from other evidence.

**Prerequisite:** SNC 2D1

### **SNC4M1 - Science**

Grade 12 University/College Preparation

This course enables students, including those pursuing postsecondary programs outside the sciences, to increase their understanding of science and contemporary social and environmental issues in health-related fields. Students will explore a variety of medical technologies, pathogens and disease, nutritional science, public health issues, and biotechnology. The course focuses on the theoretical aspects of the topics under study and helps refine students' scientific investigation skills.

**Prerequisite:** SND 2D1, or any Grade 11 university, university/college, or college preparation course in science

### **SNC 4E1 – Science**

Grade 12 Workplace Preparation

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

**Prerequisite:** SNC 2P1, or a Grade 10 locally developed compulsory credit (LDCC) course in science

## *Social Science and Humanities*

### **HFN 101 – Food and Nutrition**

Grade 9 Open

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. Students will prepare and share food at least once in a two week period.

**Prerequisite:** None

### **HIF 201 – Exploring Family Studies**

Grade 10 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.

**Prerequisite:** None

### **HFC 3E1 - Food and Culture**

Grade 11 Workplace Preparation

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. Students will be preparing at least two recipes for each country that is studied.

**Prerequisite: None**

### **HPC 3O1 – Raising Healthy Children**

Grade 11 Open

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 behavior. Students will develop their research skills through investigations related to caregiving and child rearing.

**Prerequisite: None**

### **HPW 3C1 – Working with Infants and Young Children**

Grade 11 College Preparation

This course prepares students for occupations involving children from birth to six years of age. Students will study theories about child behavior 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.

**Prerequisite: None**

### **HNC 3C1 – Understanding Fashion**

Grade 11 College Preparation

This course introduces students to the world of fashion. Students will gain an understanding of theories related to fashion trends and of how culture, media, fashion cycles, retailing, and social and environmental factors influence fashion trends and consumer behavior. Students will use various tools, technologies, and techniques safely and correctly to create fashion items. They will apply knowledge of fibres, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion.

**Prerequisite: None**

### **HFC 3M1 Food and Culture**

Grade 11 University/College Preparation

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. Students will be preparing at least two recipes for each country that is studied.

**Prerequisite: None**

### **HSP 3U1 - Introduction to Anthropology, Psychology and Sociology**

Grade 11 University

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

**Prerequisite: the Grade 10 academic course in English or the Grade 10 academic History course (Canadian and world studies).**

### **HFL4E1 – Food and Healthy Living**

Grade 12 – 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.

**Prerequisite: None**

### **HIP 4O1 – Personal Life Management**

Grade 12 Open

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

**Prerequisite: None**

### **HSB 4U1 - Challenge and Change in Society**

Grade 12 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 behavior and their impact on society. Students will critically analyze how and why cultural, social, and behavioural patterns change over time. They will explore the ideas of social theorists and use those ideas to analyze causes of and responses to challenges such as technological change, deviance, and global inequalities. Students will explore ways in which social science research methods can be used to study social change.

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

## HFA 4U1 Nutrition and Health

Grade 12 University Preparation

This course examines the relationships between food, energy, balance, and nutritional status; the nutritional needs of individuals at different stages of life; and the role of nutrition in health and disease. Students will evaluate nutrition-related trends and will determine how food choices can promote food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and develop their social science research skills by investigating issues related to nutrition and health.

**Prerequisite:** Any University, University/College, in Social Sciences and Humanities, English, or Canadian and World Studies

## IDC 4U1 Deconstructing Anti-Black Racism in the Canadian and North American Context

Grade 12 University Preparation

This course will examine and deconstruct the complex nature of anti-Black Racism in Canada, and within the broader North American context, through the study of historical oppression, as well as the political and social theories around Blackness. Students will develop their ability to identify, name, and effectively address anti-Black racism and discrimination in its various forms. Furthermore, the course will examine the concept of allyship in partnering in the fight for racial equality. Ultimately, this course will enable students to understand the intergenerational trauma that has been inflicted upon Black people and to develop their critical consciousness in understanding issues of equity in a broader context. Students will be equipped with the tools necessary to create and carry out social action initiatives designed to enhance and empower the local community.

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

## TECHNOLOGY

Students interested in pursuing studies in technology are advised to begin that process at the Grade 9 level (TIJ 101). This course will introduce students to four of the technologies offered at Clarke Road; (Communications, Construction, Manufacturing, and Transportation). Gr. 10 courses in each technical area are broad based in character, in that students are exposed to different areas within the broader trade. Upon completing courses at the Grade 9 and 10 level, students usually have a strong indication which of the technical areas they find most rewarding and challenging. Many students continue to take courses in more than one technical area. Gr. 11 and 12 courses are more specialized in nature but continue to explore various aspects within the technology. Upon completing Gr. 11 courses and while concurrently taking Gr. 12 courses, students may also enroll in the Co-op program, worth two credits, and an excellent opportunity to gain first hand trade experience, often leading to further employment. Students enrolled in the Co-op program are also automatically registered in the Ontario Youth Apprenticeship Program (OYAP), which reduces the number of hours required to earn trade certification. Speak to your Guidance Counsellor, or technical teachers for further information on this program. Students are strongly encouraged to follow the correct grade order in choosing courses. If this has not been possible, speak with a technical teacher first before registering for new courses. **Please note that double credit courses are offered at the senior level.**

## GRADE 9 TECHNOLOGIES

### TIJ 101 - Exploring Technologies

Grade 9 Open

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

## COMMUNICATION TECHNOLOGY

### TGJ 201 - Communications Technology

Grade 10 Open

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

**Prerequisite:** None

### TGJ 3M1 - Communications Technology – Mixed Media and Film

Grade 11 Open

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

**Prerequisite:** None

### TGJ 4M1 - Communications Technology - Mixed Media and Film

Grade 12 Open

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

**Prerequisite:** TGJ 3M1

### **TGP 3M1 – Communications Technology – Photography and Digital Imaging**

Grade 11 University/College Preparation

This course focuses on digital photography and emphasizes developing your technical and aesthetic skills. This course will expand on the Photography unit units explored in TGJ 20. In this class you will learn the technical side of photography including how cameras work and techniques to create better images. As well, you will manipulate photos using a variety of computer programs. Projects will include photography and producing a assortment of digital and print media products.

**Prerequisite: None**

### **TGV 3M1 - Communications Technology – TV Broadcasting Focus**

Grade 11 University/College Preparation

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

**Prerequisite: None**

### **TGV 4M1 - Communications Technology – Broadcasting Focus**

Grade 12 University/College Preparation

This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. Students may work in the areas of TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology and will investigate career opportunities and challenges in a rapidly changing technological environment. Students will be involved in the production of TNT, Clarke Road's daily TV show.

**Prerequisite: TGV 3M1**

## **CONSTRUCTION TECHNOLOGY**

### **TCJ 201 - Construction Technology**

Grade 10 Open

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

**Prerequisite: None**

### **TCJ 3C1 - Construction Engineering Technology**

(Building Construction Focus)

Grade 11 College Preparation

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

**Prerequisite: None**

### **TCJ 4C1 - Construction Engineering Technology - Building Construction Focus**

Grade 12 College Preparation

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

**Prerequisite: TCJ 3C1**

### **TCJ 4C2 - Construction Technology - Double Credit**

Grade 12 College Preparation

This course includes the description for TCJ 4CB, in addition to focussing on modules in Residential Electrical, Plumbing, Housing Design, Drywall application, and Concrete work. The course is designed for students who are considering a career in the general field of construction and who wish to study construction practices in more detail and depth than the single credit course.

**Prerequisite: TCJ 3C1**

### **TWJ 3E1 - Construction Technology – Custom Woodworking**

Grade 11 Workplace Preparation

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

**Prerequisite: None**

### **TWJ 4E1 - Construction Technology – Custom Woodworking**

Grade 12 Workplace Preparation

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

**Prerequisite:** TWJ 3E1

### **TCE 3E1**

#### **Construction Technology - Electrical Focus**

Grade 11 Workplace Preparation

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

**Prerequisite:** None

### **TCE 4E1 - Construction Technology - Electrical Focus**

Grade 12 Workplace Preparation

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

**Prerequisite:** TCE 3E1

## **GREEN INDUSTRIES**

### **THJ 201 - Green Industries**

Grade 10 Open

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

practices, and explore secondary and post-secondary education and training pathways and career opportunities in the various industry sector.

**Prerequisite:** None

### **THJ 3E1 - Green Industries**

Grade 11 Workplace Preparation

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

**Prerequisite:** None

### **THJ 4E1 - Green Industries**

Grade 12 Workplace Preparation

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

**Prerequisite:** THJ 3E1

### **THF3/4E1 – Floristry**

This course explores and provides the opportunity to develop a knowledge base and practical skills related to the area of floriculture or working with flowers. Students will apply the design process and practice different techniques to visualize, describe, build and present various projects. Students will develop a knowledge of plant identification, plant biology and plant care. Students will practice the safe and correct use of tools. Students will also explore the vast career opportunities and related post-secondary education.

**Prerequisite:** None

## **HAIRSTYLING & AESTHETICS**

### **TXJ 201 - Hairstyling and Aesthetics**

Grade 10 Open

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

**Prerequisite:** None



### **TXJ 3E1 - Hairstyling and Aesthetics**

Grade 11 Workplace Preparation

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

**Note: TXJ 2O1 is strongly recommended**

### **TXJ 4E1 - Hairstyling and Aesthetics**

Grade 12 Workplace Preparation

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

**Prerequisite: TXJ 3E1**

## **HEALTH CARE**

### **TPJ 2O1 – Health Care**

Grade 10 Open

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

**Prerequisite: None**

### **TPJ 3M1 - Health Care**

Grade 11 University/College

This course enables students to develop their understanding of basic health care procedures, including the safe use of appropriate instruments, equipment, and materials. Students will focus on health care fundamentals, including the anatomical features and physiology of the major body systems and the factors that affect homeostasis in the human body. Students will develop an awareness of health and safety issues in the health care field, analyze environmental and societal issues related to health care, and learn about professional practice standards and career opportunities in the field.

**Prerequisite: None**

### **TPJ 4M1 - Health Care**

Grade 12 University/ College

This course focuses on the development of a range of skills needed to analyze and interpret clinical findings. Students will learn about accepted health care practices and demonstrate an understanding of basic procedures and the use of appropriate instruments and equipment. They will acquire an understanding of basic concepts related to the function of the human immune system and explore the relationship between pathology and disease prevention and treatment. Students will expand their

awareness of workers' health and safety issues, analyze environmental and societal issues related to health care, and further explore professional practice standards and postsecondary destinations in the field.

**Prerequisite: Health Care, Grade 11 University/College Preparation**

### **SHSM – Specialist High Skills Major Health and Wellness**

This program is specific for Health Care students which includes courses tailored to the career they want to pursue. It enables students to experience working in the sector they are interested in while still in high school through completion of certifications and participation in specialized field trips. Students who successfully complete a SHSM receive formal recognition of a red seal that is placed on their Ontario Secondary School Diploma and are eligible for certain post-secondary awards and/or bursaries. Speak to the Health Care teacher for further details about this rewarding pathway.

## **HOSPITALITY AND TOURISM**

### **TFJ 2O1 - Hospitality and Tourism**

Grade 10 Open

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

**Prerequisite: None**

### **TFB 3E1 - Hospitality and Tourism (Baking)**

Grade 11 Workplace

This course enables students to acquire knowledge and skills related to the food and beverage services sector of the tourism industry. Students will learn how to prepare, present, and serve food using a variety of tools and equipment and will develop an understanding of the fundamentals of providing high quality service to ensure customer satisfaction and the components of running a successful event or activity. Students will develop an awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector. Workplace training provides students with authentic employment-type experience in baking and is beneficial to students in the workplace, college or university stream.

**Prerequisite: None**

### **TFB 4E1 - Hospitality and Tourism (Baking)**

Grade 12 Workplace

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

**Prerequisite: TFB 3E1**

### **TFC 3E1 - Hospitality and Tourism (Cooking)**

Grade 11 Workplace

This course enables students to acquire knowledge and skills related to the food and beverage services sector of the tourism industry. Students will learn how to prepare, present, and serve food using a variety of tools and equipment and will develop an understanding of the fundamentals of providing high quality service to ensure customer satisfaction and the components of running a successful event or activity. Students will develop an awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector. Workplace training provides students with authentic employment-type experience in cooking and is beneficial to students in the workplace, college or university stream.

**Prerequisite: None**

### **TFC 4E1 - Hospitality and Tourism (Cooking)**

Grade 12 Workplace

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

**Prerequisite: TFC 3E1**

### **SHSM – Specialist High Skills Major Hospitality**

This program is a pathway specific for hospitality students which includes courses tailored to the career they want to pursue. It enables students to experience working in the sector they are interested in while still in high school. Through specialized field trips and guest speakers, students are offered the chance to work with industry leaders and experience cutting-edge training in hospitality. Speak to one of the school chefs for further details about this rewarding pathway.

## **MANUFACTURING TECHNOLOGY**

### **TMJ 2O1 - Manufacturing Technology**

Grade 10 Open

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

**Prerequisite: None**

### **TMW 3E1 - Manufacturing Technology - Welding Focus**

Grade 11 Workplace Preparation

This hands-on, project-based course is designed for students planning to enter an occupation or apprenticeship in manufacturing directly after graduation. Students will work on a variety of manufacturing projects, developing knowledge and skills in design, fabrication, and problem solving and using tools and equipment such as engine lathes, milling machines, and

welding machines. In addition, students may have the opportunity to acquire industry standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary school pathways that lead to careers in the industry.

**Prerequisite: None**

### **TMW 4E2 - Manufacturing Technology**

#### **Welding Focus, Double Credit**

Grade 12 Workplace Preparation

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

**Prerequisite: TMW 3E1**

### **TMJ 3C1 - Manufacturing Technology -Machining Focus**

Grade 11 College Preparation

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

**Prerequisite: None**

### **TMJ 4C1 - Manufacturing Technology -Machining Focus**

Grade 12 College Preparation

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

**Prerequisite: TMJ 3C1**

## **TECHNOLOGICAL DESIGN**

### **TDJ 3M1 - Technological Design**

Grade 11 University/College

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

**Prerequisite: None**

### **TDJ 4M1 - Technological Design**

Grade 12 University/College

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

**Prerequisite:** TDJ 3M1

## **TRANSPORTATION TECHNOLOGY**

### **TTJ 2O1 - Transportation Technology**

Grade 10 Open

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

**Prerequisite:** None

### **SENIOR LEVEL SPECIALIZATION COURSES: SINGLE OR DOUBLE CREDIT OPTION**

Students may enrol in the following courses for either a single credit, or a double credit. The single and double credit classes will be offered back-to-back, either in the morning or the afternoon. Those wishing to pursue an automotive repair career path, may register for TTJ 3C2, or TTJ 4C2, and those pursuing a career in auto body repair may register for TTB 3C2, or TTB 4C2. Students continue to have the option of taking one credit in either of the automotive areas, or one credit in both areas. See the Transportation teachers for further clarification.

### **TTJ 3O1 – Transportation Vehicle Ownership**

Grade 11 Open

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

**Prerequisite:** None

## **AUTO MECHANIC FOCUS**

### **TTJ 3C1 - Transportation Technology Auto Mechanics Focus - Single Credit**

Grade 11 College Preparation

This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, brake, and steering systems on vehicles, aircraft, and/or watercraft. Students will develop communication and teamwork skills through practical tasks, using a variety of

tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry.

**Prerequisite:** None

### **TTJ 3C2 - Transportation Technology Auto Mechanics Focus - Double Credit**

Grade 11 College Preparation

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

**Prerequisite:** None

### **TTJ 4C1 - Transportation Technology Auto Repair Focus - Single Credit**

Grade 12 College Preparation

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

**Prerequisite:** TTJ 3C1 or TTJ 3C2

### **TTJ 4C2-Transportation Technology Auto Repair Focus - Double Credit**

Grade 12 College Preparation

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

**Prerequisite:** TTJ 3C1 or TTJ 3C2

### **TTB 3C1 - Transportation Technology - Vehicle Ownership Autobody Repair Focus - Single Credit**

Grade 11 Open

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

**Prerequisite:** None

**TTB 3C2 - Transportation Technology - Vehicle Ownership  
Autobody Repair Focus - Double Credit**

Grade 11      Open

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

**Prerequisite: None**

**TTB 4C1 - Transportation Technology - Vehicle  
Maintenance - Autobody Repair Focus - Single Credit**

Grade 12      Workplace Preparation

Students will be able to reinforce and improve upon the autobody and collision repair skills introduced in the Grade 11 course. This course introduces students to the servicing, repair, and maintenance of vehicles through practical applications. The course is appropriate for all students as a general interest course to prepare them for future vehicle operation, care, and maintenance or for entry into an apprenticeship in the motive power trades. Students will develop an awareness of environmental and societal issues related to transportation and will learn about careers in the transportation industry and the skills and training required for them.

**Prerequisite: TTB 3C1 or TTB 3C2**

**TTB 4C2 - Transportation Technology - Vehicle  
Maintenance - Autobody Repair Focus - Double Credit**

Grade 12      Workplace Preparation

This course is designed for students who have completed a Grade 11 Autobody course and desire to improve their skill level in the field of autobody and collision repair service. This course introduces students to the servicing, repair, and maintenance of vehicles through practical applications. The course is appropriate for all students as a general interest course to prepare them for future vehicle operation, care, and maintenance or for entry into an apprenticeship in the motive power trades. Students will develop an awareness of environmental and societal issues related to transportation and will learn about careers in the transportation industry and the skills and training required for them.

**Prerequisite: TTB 3C1 or TTB 3C2**