



**CENTRE WELLINGTON DISTRICT HIGH SCHOOL  
COURSE CALENDAR  
2022-2023**

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# ONTARIO SECONDARY SCHOOL DIPLOMA (OSSD) REQUIREMENTS

To obtain the OSSD, students earn 30 credits of 110 hours each, including 18 compulsory credits and 12 elective credits. The following 18 compulsory credits must be included in any student's program in order to obtain an Ontario Secondary School Diploma:

4 Credits in English  
3 Credits in Mathematics  
2 Credits in Science  
1 Credit in Canadian History  
1 Credit in Canadian Geography  
1 Credit in the Arts  
1 Credit in Health and Physical Education  
1 Credit in French as a second language  
0.5 Credit in Career Studies  
0.5 Credit in Civics

12 elective credits selected from available courses

**PLUS one credit from each of the following groups:**

**Group 1**

1 additional credit in English or French as a second language, or a Native language, or a classical or an international language, or social sciences and humanities or Canadian and world studies, or guidance and career education or co-operative education\*

**Group 2**

1 additional credit in health and physical education, or the arts, or business studies, or French as a second language, or computer studies, or co-operative education\*.

**Group 3**

1 additional credit in science (grade 11 or 12), or technological education, or French as a second language, or computer studies, or co-operative education\*

*NOTE\**: a maximum of 2 credits in co-op may count as compulsory credits

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

PLUS:

- Successful completion of Ontario Secondary School Literacy Test
- Mandatory Community Involvement of 40 hours

## MANDATORY ONTARIO SECONDARY SCHOOL LITERACY TEST

Students will write the Ontario Secondary School Literacy Test in the spring of Grade 10. This test is provincially created and administered. The literacy test evaluates students' reading, writing and comprehension skills based on the expectations in Language and Communications up to and including Grade 9. Students must pass this test in order to graduate from High School, and the successful completion of the test will be recorded on the Ontario Student Transcript. Students who do not pass the test successfully will receive remedial help to prepare for re-testing. English as a Second Language students will take the test only when they have reached an equivalent level in their language studies. Accommodations for students in special education programs may include additional time to complete the test. Requests for deferrals or exemptions are to be directed to the Principal. The grade 12 Ontario Secondary School Literacy Course is available for students who have been eligible to write the OSSLT and who have been unsuccessful at least once. Students who are successful in this course earn one English credit and meet the provincial literacy requirement for graduation.

## MANDATORY COMMUNITY INVOLVEMENT

Students are required as part of their Ontario Secondary School Diploma (OSSD) to complete a minimum of 40 hours of unpaid community involvement over their four years of secondary school. This involvement will be in addition to the 30 credits required to graduate and must be arranged by the students and parents. Students must keep a record of this involvement and have it validated by the school Principal or the Head of Guidance Services. A student may work in a variety of settings including not-for-profit organizations, public sector institutions (including hospitals) and informal settings. Possible activities include charity work, coaching, or involvement in certain extra-curricular activities within the school as defined by the guide provided by the Ministry. If a student wishes to participate in an activity or event that is not clearly within the Board's set of examples, and does not conform to the principles set out in the Information Manual, he/she must discuss this activity with the school Principal and get his/her signature before proceeding. In grade 9 each student will receive a copy of the Community Involvement Information Manual. This manual provides students with lists of eligible and ineligible activities. It also includes a record of hours for planned and completed Community Involvement Activities. Students may begin accumulating community involvement hours upon graduation from grade 8. This includes July and August before the student begins grade 9.

## ONTARIO SECONDARY SCHOOL CERTIFICATE

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

### Compulsory Credits (total of 7):

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

### Optional Credits (total of 7)

The provisions of making substitutions for compulsory credits also apply to the Ontario Secondary School Certificate

## THE CERTIFICATE OF ACCOMPLISHMENT

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

The Certificate of Accomplishment will be accompanied by the Ontario Student Transcript. For those students who have an individualized education plan, a copy of the IEP may be included.

Students who return to school to complete additional credit and non-credit courses will have their transcript updated accordingly, but will not be issued a new Certificate of Accomplishment. They may work towards an Ontario Secondary School Certificate or Ontario Secondary School Diploma.

## CERTIFICATE OF INTERNATIONAL STUDIES

Combine your interest in Languages, Business and Canadian & World Studies to earn a certificate of International Studies. Students must complete a minimum of 3 of the senior courses listed below, one from each discipline, in order to receive this award. Ask for details!

### **French and International Languages**

- FIF3U - Grade 11 Immersion French
- FIF4U - Grade 12 Immersion French
- FSF3U - Grade 11 Core French
- FSF4U - Grade 12 Core French
- LWSCU - Grade 11 Spanish
- LWSDU - Grade 12 Spanish

### **Business**

- BBB4M - Grade 12 International Business Fundamentals

### **Canadian and World Studies**

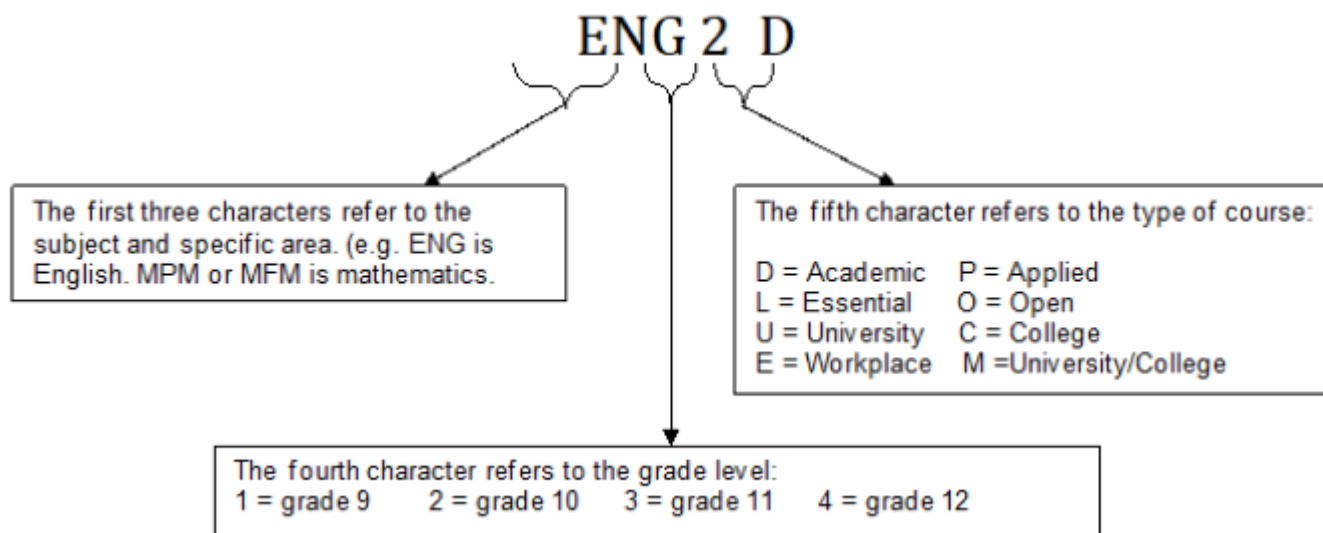
- CGG3O - Grade 11 Travel and Tourism: A Geographic Perspective
- CGW4U - World Issues: A Geographical Analysis
- CHY4U - West and the World
- CLU4U - Canadian and International Law

## BUSINESS SPECIALIST CERTIFICATE

The Business Department believes that students benefit from taking business courses as a package. A certificate is granted to graduates who have completed a full program in Business Studies, consisting of any 6 Business Studies credits.

## COURSE CODES

Each high school course code is identified by a 5 character “code. For example:



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

## COURSE ORGANIZATION

### GRADES 9 AND 10

Grade 9 and 10 Courses are streamed into Academic (D), Applied (P), Essential (E), Locally Developed (L), and Open (O).

In an **academic course**, the student will learn the essential concepts of a subject and explore related material as well. Emphasis will be on theory and abstract thinking as a base for future learning and problem solving.

In an **applied course**, the student will learn the essential concepts of a subject. Knowledge and skills will be developed through both theory and practical applications, but the focus will be on practical applications.

**Locally Developed Courses** are designed locally to meet the unique needs of some students who may need specialized supports.

Courses that are not specific to any post-secondary destination and are appropriate for all students, which students may take to meet compulsory or optional requirements and/or for personal growth and interest are labeled **Open**.

### GRADES 11 AND 12

Grade 11 and 12 Courses are streamed into destination courses: College Preparation (C), University/College Preparation (M), University Preparation (U), Workplace Preparation (E), Open (O)

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

**Open** courses are not specific to any post-secondary destination and are appropriate for everyone. Students may take open courses to meet compulsory or optional requirements and/or for personal growth and interest.

**University/College** preparation courses include content that is relevant for both university and college programs. They are designed to equip the students with the knowledge and skills needed to meet the entrance requirements for specific university and college programs.

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

**Workplace** preparation courses are designed to equip students with the knowledge and skills they need for direct entry into the workplace or for admission to apprenticeship programs offered in the community.

## COURSE PREREQUISITES

Some courses extend or build upon knowledge and skills developed in other courses. The Ministry of Education designates the courses for which prerequisites are required.

### \*Course Changes

When choosing courses, students in grades nine through eleven must take 8 courses. Once a student chooses a course, they are expected to remain enrolled in that course, unless there are special circumstances. Students are encouraged to speak to their teachers and counselors, should any difficulties and/or challenges arise.

## SPECIALIZED PROGRAMMING

### SPECIALIST HIGH SKILLS MAJOR (SHSM)

Specialist High Skills Major (SHSM) is a Ministry-approved specialized program that allows students to focus their learning on a specific economic sector while meeting the requirements of the Ontario Secondary School Diploma (OSSD), earning a red seal. It assists in their transition from secondary school to apprenticeship training, college, university, or the workplace.

CWDHS has 11 SHSM pathways: **Agriculture, Arts & Culture, Business, Construction, Environment, Manufacturing, Health & Wellness, Hospitality, Sports, Transportation, and Information Communication Technology**

In order to receive recognition for completing a SHSM as a part of a student's OSSD they must complete:

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

#### **Agriculture SHSM students will take:**

- 4 agriculture major credits
- English, mathematics, and a choice of business studies or science
- 2 cooperative education credits tied to the sector.

What are the future career paths for a major in agriculture?

#### **For agriculture majors, possible careers include:**

**Apprenticeship** – Arborist, Blacksmith, Dairy Herdperson, Farm Equipment Technician, Fruit Grower, Horse Groom, Parts Person, Swine Herdperson

**College** – Agricultural Equipment and Supplies Technical Salesperson, Customer Support Representative, Farmer and Farm Manager, Technical Sales Specialist, Veterinary Equipment and Supplies Salesperson, Winery and Viticulture Technician

**University** – Agricultural Chemist, Agricultural Inspector, Agronomist, Chemical Engineer, Mechanical Engineer, Soil Scientist, Veterinarian

**Entry-level workplace** – General Farm Worker, Greenhouse Worker, Harvesting Labourer, Mechanic Helper, Pet Groomer and Animal Care Worker, Specialized Livestock Worker

### **Arts and Culture SHSM students will take:**

- 4 credits in arts and culture
- 1 English credit plus 1 credit in either Business Studies or Canadian and World Studies
- 2 cooperative education credits to gain workplace experience that enables students to refine, extend, and practice sector specific knowledge and skills

### **Possible Arts careers include:**

**Apprenticeship** – gem setter/goldsmith, stage sound and light technician

**College** – photographer, graphic artist, actor, set designer, costume designer, cinematography, film, TV broadcasting, radio broadcasting, animation

**University** – journalist, writer, visual artist, conductor, actor, teacher, screenwriting, directing, curator

**Entry level workplace** – photographic and film processor, printing machine operator, sign maker

### **Business SHSM students will take:**

- 4 business credits
- 1 English and 2 Mathematics credits
- 2 cooperative education credits to gain workplace experience that enables students to refine, extend, and practice sector specific knowledge and skills

### **Possible business careers include:**

**Apprenticeship** – parts technician, special events coordinator, entrepreneur

**College** – conference and event planner, legal secretary, entrepreneur

**University** – financial and investment analyst, web designer and developer, entrepreneur

**Entry level workplace** – accounting clerk, banking clerk, real estate agent, entrepreneur

### **Construction SHSM students will take:**

- 4 construction major credits
- English, mathematics, and a choice of science or business studies
- 2 two cooperative education credits tied to the sector

What are the future career paths for a construction major?

### **For construction majors, possible careers include:**

**Apprenticeship** – Brick and Stone Mason, Carpenter, Construction Millwright, Electrician, Heating and Air Conditioning Contractor, Painter and Decorator, Plumber, Roofer 7291

**College** – Architectural Design Technician/Technologist, Civil Engineering Technologist, Construction Estimator, Construction Manager, Construction Technologist, Contractor and Supervisor, Electrical Trades and Telecommunications, Home Inspector, Interior Designer, Residential Home Builder or Renovator

**University** – Architect, Electrical Engineer, Mechanical Engineer, Structural Engineer

**Entry-level workplace** – Carpenter Helper, Concrete Finisher, Construction Trades Helper and Labourer, Demolition Worker, Drywall Installer, Helper – Construction Trades, Home Renovator

### **The Environment SHSM students will take:**

- 4 Environment major credits
- 2 English, 1 math, and 2 credits in co-op

### **Possible Environmental careers include:**

**Apprenticeship** – arborist

**College** – conservation and fishery officer, soil testing technologist, soil ecologist

**University** – environmental biologist, waste diversion consultant, environmental and occupational toxicologist

**Entry level workplace** – outdoor sport and recreation guide, wastewater treatment plant operator, recycled paper handler

### **Health and Wellness SHSM students will take:**

- 4 health and wellness major credits
- 1 English, 1 math, 1 science or social science or Phys ed and co-op

### **Possible Health and Wellness careers include:**

**Apprenticeship** – early childhood educator, health care aid, registered massage therapist

**College** – ambulance attendant, dental hygienist, pharmacy technician, registered nurse, athletic trainer

**University** – audiologist, dentist, dietician, pharmacist, kinesiologist, sports medicine doctor

**Entry level workplace** – certified personal trainer, lifeguard, hospital information clerk, doctor's office receptionist

### Hospitality SHSM students will take:

- Four hospitality and tourism major credits
- 1 English credit, a math credit and one credit of either science or business studies tailored to include units focused on hospitality and tourism
- 2 cooperative education credits to gain workplace experience that enables students to refine, extend, and practice sector specific knowledge and skills

What are the future career paths for a hospitality and tourism major?

### **For hospitality and tourism majors, possible careers include:**

**Apprenticeship** – baker, cook, chef, special events coordinator

**College** – flight attendant, food service manager

**University** – nutritionist, dietician, hotel/resort manager

**Entry-level workplace** – hotel valet, bartender

### ICT SHSM students will take:

- 4 ICT major credits
- English, mathematics, and a choice of arts, business or science
- 2 cooperative education credits tied to the sector

### **Possible ICT careers include:**

**Apprenticeship** - Computer Network Technician, Help Desk Technology Support Analyst, Telecommunications Installation and Repair/Network Cabling Specialist, Telecommunications Line and Cable Worker

**College** - Audio and Video Recording Technician, Broadcast Technician, Electrical and Electronics Engineering Technologist and Technician, Electronic Service Technician, Film and Video Camera Operator, Graphic Designer, Illustrator, Animator, Systems Testing Technician, User Support Technician, Web Designer and Developer

**University** - Computer Engineer, Computer Programmer and Interactive Media Developer, Information Systems Analyst, Software Engineer and Designer, Technical Sales Specialists

**Entry level Workplace** - Desktop Publishing Operator, Residential and Commercial Installer and Servicer, Satellite Dish Installer, Retail Salesperson and Sales Clerk, Telecommunications Cable Installer Helper and Splicer Helper

### Manufacturing SHSM students will take:

- 4 manufacturing credits (may substitute "other" tech or math)
- plus: grade 12 English, 1 math, 1 science and co-op

### **Possible manufacturing careers include:**

**Apprenticeship** – precision machinist, tool and die maker, welder, electrician

**College** – design and drafting technologist, inventory analyst, engineering technologist

**University** – mechanical engineer, electrical engineer, metallurgical engineer

**Entry-level workplace** – machine operator, foundry worker, inventory clerk

### Sports SHSM students will take:

- 4 sports major credits providing skills and knowledge in the sector
- 1 English credit
- and other credits tailored to include units focused on sports
- 2 cooperative education credits to gain workplace experience that enables students to refine, extend and practice sector-specific knowledge and skills

### **For Sports Majors, possible careers include:**

**Apprenticeship** – event planner

**College** – broadcaster, recreation facility manager

**University** – sports agent, marketing/communications manager

**Entry level workplace** – recreation facilities worker, equipment manager

### Transportation SHSM students will take:

- 4 transportation major credits
- English, mathematics, and science or business studies
- 2 cooperative education credits tied to the sector

**Possible Transportation careers include:**

**Apprenticeship** –Alignment and Brakes Technician, Auto Body Repairer, Automotive Painter, Motor Vehicle Repair, Automotive Service Technician, Marine Engine Mechanic, Motorcycle Technician, Parts Technician, Recreation Vehicle Service Technician, Small Engine Mechanic, Transmission Technician, Truck and Coach Technician, Truck and Transport, Vehicle Mechanic

**College** –Air Pilot, Industrial Designer, Industrial Engineering Technician, Marine Engine Technician, Mechanical Engineering Technologist, Navigation Officer – Water Transport, Quality Control Assembly Inspector, Automotive/Marine Engines, Supervisors, Motor Transport, and Other Ground Transit Operators

**University** –University Workplace, Aerospace Engineer, Automotive Engineer, Industrial Designer, Urban Planner

**Entry-level workplace** –Aircraft Assembler and Aircraft Assembly Inspector, Airport Ramp Attendant, Automobile Salesperson, Automotive Mechanical Installers and Servicers, Boat Assembler and Inspector, Boat Operator, Bus Driver, Subway Operator, and Other Transit

Operator, Car Lot Attendant, Delivery and Courier Service Drivers, Heavy Equipment Operators (except Crane), Railway Track Maintenance Worker, Service Station Attendant, Tire Repairer

## E-LEARNING

Below is a chart of Upper Grand District School Board courses offered in an **eLearning format**. Students wishing to take an eLearning course from this chart can choose it directly in **MyBlueprint** during course selection time. If a student is wishing to access an eLearning course not listed below, there may be an opportunity to enroll in one from another school board provided it is available and that there is room in the course. Students must speak with their guidance counselor to sign up in Prism as per past practices for any out-of-board course **not** listed below.

GRADE 10	GRADE 11	GRADE 12	GRADE 12
AWQ2OZ	ENG3CZ	BAT4MZ	ICS4CZ
BBI2OZ	ENG3UZ	CGW4UZ	ICS4UZ
CHC2DZ	GPP3OZ	CHI4UZ	MCT4CZ
CHC2PZ	HSE3EZ	CLN4UZ	MCV4UZ
CHV2OZ/GLC2OZ	HSG3MZ	ENG4CZ	MDM4UZ
ENG2DZ	HSP3UZ	ENG4UZ	MHF4UZ
ENG2PZ	ICS3CZ	EWC4CZ	OLC4OZ
ICS2OZ	ICS3UZ	EWC4UZ	PSK4UZ
MPM2DZ	MBF3CZ	HHS4UZ	SCH4CZ
MPM2PZ	MCF3MZ	HIP4OZ	SES4UZ
NAC2OZ	MCR3UZ	HSB4UZ	SPH4CZ
SNC2PZ	NDA3MZ	HSC4MZ	SPH4UZ
SNC2DZ	PPZ3CZ	HSE4MZ	
	SVN3EZ		

**\*\* Currently there are no online French Immersion courses offered through the Upper Grand District School Board for the 2022-2023 school year**

**Profile of a Successful E-Learner:**

- A problem-solver
- Organized
- Self-directed
- Able to manage his/her time
- Able to multitask
- Flexible – with a willingness to learn
- Computer literate
- Self-motivated
- Responsible
- Critical thinker
- Honest
- An effective communicator



## Time Commitment and Format:

- As an e-learner, you are expected to spend at least as much time (75 minutes per day or more) with your online course as you would expect to spend in a regular classroom.
- All e-learning courses are **asynchronous** and students are expected to complete work independently. You will have access to your teacher through online bulletin boards, discussion groups, and email. It is a self-contained course with links to the assignments and reference materials in place of a live instructor.

## Grade 9 Remote Package Description 2022-2023

For grade 9 students that desire a remote learning option for the 2022-23 school year, a set package of synchronous courses (4 per semester) will be delivered through a combination of BrightSpace (the Provincial eLearning platform) and Google Meet. Students will be expected to attend class virtually on a daily basis according to a set schedule that will include opportunities for online, whole group and small group learning opportunities and asynchronous/independent learning.

Courses Included: BTT10 Information & Communication Technology in Business, ENG1D English Grade 9, GLS10 Learning Strategies, MTH1W Math Destreamed, AWQ10 Photography, CGC1D geography, FSF1D French and SNC1W Destreamed science.

All Grade 9 courses are de-streamed. The instructional strategies and assignments that are used will support a range of student skills and interests. Courses are designed through Culturally Relevant and Responsive Pedagogy to develop and enhance real world content and skills

Courses Included:

### Semester 1 Courses:

BTT10	Information & Communication Technology in Business, Open
ENG1D	English, Grade 9
GLS10	Learning Strategies, Open
MTH1W	Math, Destreamed

### Semester 2 Courses:

AWQ10	Visual Arts - Photography, Open
CGC1D	Issues in Canadian Geography, Grade 9
FSF1D	Core French, Grade 9
SNC1W	Science, Destreamed

# INTERDISCIPLINARY STUDIES

## **CELP-Grade 10 (Centennial)** <https://www.ugdsb.ca/celp/>

CELP is a 4-credit environmental leadership program. As a community of 24, students have a fall canoe or winter snowshoe trip; teach grade five students the Earthkeepers nature program and form lasting relationships over community meals. Students take ENG2D or ENG2P, GLC2O/CHV2O, IDP3O, and PAD2O.

## **HEADWATERS: A Journey to the Source- Grade 12 (Centennial)** [Headwaters Info](#)

We are living in a time of environmental challenge that requires young people to be heroes. Heroes are willing to step away from what they know and how they think to explore more sustainable ways of living. Join the Headwaters journey to travel to the wilderness, learn about current issues, and work with others on solutions while earning four high school credits. Spend your days paddling, gardening, snowshoeing, reading environmental literature, and learning in a community of peers. Prepare for post-secondary by learning inquiry, critical thinking and teamwork skills while investigating and reflecting on possible career and life options.

There is a course fee of \$800 for Headwaters to pay for trips and for our off site location. No student is denied the opportunity to take CELP or Headwaters due to financial reasons. Please let us know if this is a concern- WE WANT YOU TO APPLY so if money is an issue we have a bursary for the applications process.

Students will take CGR4M, ENG4U/4C or EWC4C, IDP4U or IDP4O, PAD4O

## **URBAN ARTS: MADE-Grade 11 (GCVI Semester 2)** <https://www.ugdsb.ca/gcvi/departments/specialised-programs/>

Urban Arts is an innovative program designed for Grade 11 students with a keen interest in the Arts. The courses focus on the creative exploration of the arts and all levels of ability are welcome in this collaborative environment. Students will explore Music, Art, Drama and English in an integrated, nontraditional environment at the Guelph Youth Music Centre. In this downtown setting, students will experience real world opportunities with the teaching staff, professional local artists, and mentors from the University of Guelph.

Download the application from the web site. Applications should be submitted by CONTACT GUIDANCE

The course code MADE automatically includes the following courses: AMC3M Music for Creating, AWT3M Non-Traditional Media, ADD3M Drama Production·ENG3U or ENG3C

## **BEYOND BORDERS - Grade 12 (Centennial Semester 1)** <https://www.beyondborders1.ca/>

Beyond Borders offers an opportunity for all enthusiastic and community-minded grade 12 students to enjoy a unique semester that will truly prepare them for the future. The program focuses on leadership development, business, math, global development and sustainability, with an emphasis on team-building, skill development, and experiential learning.

The program fee of \$785 covers many remarkable learning opportunities and enjoyable experiences, including trips to New York City, Toronto, Blue Mountain, and a leadership development trip to the Muskokas visiting Camp Tawingo.

Students get the chance to prepare themselves for post-secondary education through our program structure, campus tours and interaction with faculty and students. Students will have the opportunity to network with many professionals within a variety of fields, including education, business, local politics and more.

Students are shown the varying factors that contribute to a successful company and leader. Students are shown how to become socially responsible leaders through character driven activities that will develop the traits that will help them be better leaders and members of society.

### **Mandatory Course Credits:**

Business Leadership (BOH4M), Sustainability and Business (IDC4U), World Issues (CGW4U)

Students choose one of the following:

Functions (MHF4U) or Data Management (MDM4U)

· Special considerations may be made during the application process (if conflicts exist with the math credits)

Applications can be found on the Beyond Borders Website: [beyondborders1.ca](https://www.beyondborders1.ca)

All applications must be submitted electronically and a hard copy to the Guidance Office by CONTACT GUIDANCE

## DUAL CREDIT

# Go to College While You're Still in High School...



Dual Credit programs are programs approved by the Ministry of Education that allow **Grade 12 students** to take college or apprenticeship courses that count towards both their Ontario Secondary School Diploma (OSSD) and a post-secondary certificate, diploma, or a Certificate of Apprenticeship.

Students may earn credits towards their secondary school diploma through courses delivered by Conestoga, Georgian or Humber Colleges through our partnerships in the School College Work Initiative. Students may earn up to four optional credits through college-delivered courses.

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### POSSIBLE PROGRAM OFFERINGS:

**OYAP Level 1** - Auto, Brick & Stone, Carpenter, Electrician, Machinist, Plumber, Refrigeration, Truck & Coach

**CAPP (College Apprenticeship Preparation Program)** - Automotive Service, Culinary, Truck & Coach, Welding

**Exploring the Trades** - Construction (Electrical/Plumbing), Food Production, Mechanical (Heavy Equip/Welding)

**College Pathway** - Animal Care, Animation, Automation/Robotics, Cabinetmaking, Cosmetology, CNC, Criminal Justice/Crime Scene, Design Foundations, Developmental Disabilities, Early Childhood Education, Entrepreneurial Exploration, Lifestyle Mgt/Success in Health, Photography/ Photoshop, Positive Psych/Group Fitness Leadership, Renewable Energy, Sociology

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### Eligibility Requirements:

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>● Grade 12 graduating year (22 - 29 credits);</li><li>● demonstrates evidence of independent learning skills;</li><li>● demonstrates an appropriate maturity level;</li></ul> | <ul style="list-style-type: none"><li>● disengaged and underachieving who have the potential to succeed;</li><li>● OYAP student;</li><li>● SHSM student.</li></ul> |
|---|--|

**Course Selection:** Please make an appointment with a Guidance counselor for more information including the application package. On the course selection worksheet, choose **FTEDU4Y** for all OYAP Level 1 programs and **FTEDU4T** for all other Dual Credit programs.

Visit our website at [www.ugdsb.ca/dualcredit](http://www.ugdsb.ca/dualcredit) for additional information.

## CONTINUING EDUCATION

Continuing Education offers high school courses during the day, evening and summer. Information on these courses can be found on the UGDSB website at <https://www.ugdsb.ca/continuing-education/>.

### Summer School

Registration for online or in-class courses begins in the spring. Online courses have limited enrollment, so please visit guidance early in the spring to register. Students can register for in-class options using MyBlueprint under the Continuing Education tab. Guidance counsellors will contact you if you do not have the prerequisite for a course.

### Night School

These classes are offered in a hybrid format; combining the benefits of face-to-face learning, online collaboration and self-paced learning. These courses are available to senior students; however, taking these courses while in day school may increase workloads. Students are advised to speak to a Guidance Counsellor and/or the school Principal. Students can also register for night school classes using MyBlueprint under the Continuing Education tab.

### Day School

For students over the age of 18, who still require high school credits for post-secondary or graduation, there are some day school classes available. These run in six week intervals over various times over the year. Please visit guidance if you have any questions about these opportunities.

**Please contact the guidance office for further information regarding these programs**

## STUDENT SERVICES

### STUDENT SERVICES AND COURSE SELECTION

The dedicated Student Services team offers help, pathways advice, career counseling, scholarship and SHSM guidance and support to all pupils within the CWDHS community. Students, in consultation with their parents/guardians and teachers, are responsible for their course selection using the My Blueprint icon found on the opening page of a student's "ugcloud" account. All of our courses have been developed according to the Ministry of Education guidelines.

### RESOURCE

The Special Education department provides programs and services to meet the needs of identified students throughout their time at Centre Wellington District High School. Grade 9 and 10 programs are designed to assist students to make a successful transition from Grade 8 into high school. Ongoing communication between the Special Education staff, classroom teachers, students and parents is stressed.

### REGULAR PLACEMENT OPTIONS

#### Monitor Program

For students who need a minimum of support. Assistance is on an as-needs basis with some classroom and/or examination accommodations.

#### Gifted Students

Students, who are identified as Gifted, are placed in regular programs. The Special Education department is responsible for monitoring students' progress and assisting them to become autonomous learners. Special Education teachers will assist with appropriate course selections and encourage teachers to deliver challenging and enriching programs.

#### Resource Period (FTERSW) - Grades 9 – 12

This is designed for students who would benefit from a reduced course load. Students do not achieve a credit, but receive assistance with other courses while in the resource room.

For further information regarding course placement, please see Mrs. Mick-Anger, the Head of Special Education.

### **SPECIAL EDUCATION ADVISORY COMMITTEE (SEAC)**

The Upper Grand District School Board's Special Education Advisory Committee (SEAC) is a committee created under the Education Act to make recommendations to the board about matters affecting the establishment and development of special education programs and services for exceptional pupils in the board. The SEAC is made up of parents, trustees, and community representatives who meet regularly to discuss concerns about the education of exceptional children.

Parents are able to read the Special Education Plan at the school, or access the document on the Upper Grand District School Board website: <http://www.ugdsb.on.ca/program/article.aspx?id=1074>

# THE ARTS

The arts help students develop desirable skills that improve their overall achievement, even in unrelated subject areas. When a student studies the arts, the power of personal creativity is sparked and applied in many unique ways. The CWDHS Arts Department offers courses in Drama/Theatre Tech, Martial Arts (Dance), Media Arts, Music, and Visual Arts, allowing a student to explore areas of particular interest or experience a broad range of disciplines which will enhance their experiences in high school and beyond. Courses are offered at the Open as well as at the University/College levels.

## DANCE (Martial Arts)

### **Grade 10 Dance – Pacific Rim/Asian Martial Arts (Open – ATO2O)**

*Prerequisite:* None

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

**Note:** Martial arts is the focus of this course. Self-defense, physical fitness, and martial arts history will be emphasized. A course fee of \$25 is required for a traditional uniform.

### **Grade 11 Dance - Pacific Rim/ Asian Martial Arts (Open - ATO3O)**

*Prerequisite:* None

This course will give students opportunities to express themselves through martial arts. Students will develop technical skills; study the historical aspects of various martial arts forms and their function in specific cultures and evaluate performances.

**Note:** Martial art is the focus of this course. Self-defense, physical fitness, and martial arts history will be emphasized. A course fee of \$25.00 is required for a traditional uniform.

### **Grade 11 Dance - Pacific Rim/Asian Martial Arts (University/College Preparation - ATO3M)**

*Prerequisite:* Martial Arts, grade 10, open (ATO2O)

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

**Note:** Martial art is the focus of this course. Self-defense, physical fitness, and martial arts history will be emphasized.

### **Grade 12 Dance - Pacific Rim/Asian Martial Arts (University/College Preparation - ATO4M)**

*Prerequisite:* Martial Arts, grade 10 or 11, open or mixed (ATO2O, ATO3O or ATO3M)

This advanced course emphasizes the development of technical proficiency and the creation and presentation of complex compositions. Students will acquire increasingly difficult technical skills; assume leadership as martial artists, choreographers, and production personnel; analyze and evaluate sparring performances; and study historical and cultural aspects of martial arts.

**Note:** Martial art is the focus of this course. Self-defense, physical fitness, and martial arts history will be emphasized.

## DRAMA

### **Grade 9 Drama (Open - ADA1O)**

*Prerequisite:* None

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 experiences to develop an understanding of themselves, the art form, and the world around them.

### **Grade 10 Drama (Open - ADA2O)**

*Prerequisite:* None

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

### **Grade 10 Theatre Technology (Open - ADV2O)**

Prerequisite: None

This course requires students to examine the technical aspects of stage production. Students will become familiar with using various technological tools to enhance performances for a specific audience. Not only will there be some focus on equipment, but there will also be opportunities to explore other roles behind the scenes. Through hands-on experience and project based learning students will be able to explore set design, lighting, sound effects, cueing programs, costumes and theatrical makeup. Taking this course at the grade 11 and 12 level will allow for students to continue skill development in these areas.

### **Grade 11 Drama (Open - ADA3O)**

Prerequisite: None

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

### **Grade 11 Drama (University/College Preparation - ADA3M)**

Prerequisite: Drama, grade 9 or 10, open (ADA10 or ADA20)

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.

### **Grade 11 Theatre Technology (Open - ADV3O)**

Prerequisite: None

This course requires students to examine the technical aspects of stage production. Students will have the opportunity to use various technical tools such as sound and lighting equipment, to enhance performances for a specific audience. Hands-on, project based learning will be the key focus as students will create sound effects, miniature sets, lighting designs, theatrical makeup and other behind the scenes projects. Those coming into the class with prior knowledge will continue to build on skills and delve deeper into assigned tasks.

### **Grade 12 Drama (University/College Preparation - ADA4M)**

Prerequisite: Drama, grade 11, mixed or open (ADA3M or ADA3O)

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

**Note:** Students seeking to take ADA4M without the prerequisite must have taken at least one previous Drama class and be prepared to present an audition or portfolio for admission into the course.

### **Grade 12 Theatre Technology (University/College Preparation - ADV4M)**

Prerequisite: Any Senior level Arts course

This course requires students to examine the technical aspects of stage production. Students will have the opportunity to use various technical tools such as sound and lighting equipment, to enhance performances for a specific audience. Hands-on, project based learning will be the key focus as students will create sound effects, miniature sets, lighting designs, theatrical makeup and other behind the scenes projects. Those coming into the class with prior knowledge will continue to build on skills and serve as mentors to beginners in course.

### **Grade 12 Exploring and Creating the Arts (Open - AEA4O/ADD4M) / Drama - Production (University/College Preparation - Prerequisite: Any Senior level Arts course**

**Note:** *University bound students should select ADD4M*

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

## MEDIA ARTS

### **Grade 10 Media Arts (Open - ASM2O)**

Prerequisite: None

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

### **Grade 11 Media Arts (Open - ASM3O)**

Prerequisite: None

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

### **Grade 11 Media Arts (University/College Preparation - ASM3M)**

Prerequisite: Any grade 9 or 10 Arts credit Highly Recommended: Media Arts, grade 10, open (ASM2O)

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

### **Grade 12 Media Arts (University/College Preparation - ASM4M)**

Prerequisite: Media Arts, grade 11 (ASM3M)

**Note:** Students who excelled in ASM3O may gain entry to ASM4M in consultation with the teacher

This course emphasizes the refinement of media arts skills through the creation of a thematic body of work by applying traditional and emerging technologies, tools, and techniques such as multimedia, film, 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.

## MUSIC

### **Grade 9 Instrumental Music (Open - AMU1O)**

Prerequisite: None

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

### **Grade 9 Vocal Music (Open - AMV1O)**

Prerequisite: None

This course introduces the student to the study of vocal music. Methods of tone production, warm-up and sight singing will accompany the repertoire studies in class. Performance will be emphasized and no previous experience is necessary.

### **Grade 10 Instrumental Music (Open- AMU2O)**

Prerequisite: None

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.

### **Grade 10 Vocal Music (Open - AMV2O)**

Prerequisite: None

This course emphasizes performance of music at a level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history. This course is designed for students who wish to study music through singing, emphasizing the fundamentals of good singing through breathing, voice production, diction and ear training. (Participation in the Concert Choir is expected.)

### **Grade 11 Vocal Music (University/College Preparation - AMV3M)**

Prerequisite: Vocal Music, Grade 9 or 10, open (AMV1O or AMV2O)

This course develops students' artistic knowledge and skills through the performance of music and the preparation of music productions. Students will perform appropriate works, particularly works in contemporary popular styles. Independently and in groups, they will also plan, market, and produce music productions, making use of appropriate technology, and will evaluate the results. This course is designed for the intermediate vocalist.



### **Grade 11 Instrumental Music (University/College Preparation - AMU3M)**

Prerequisite: Instrumental Music, Grade 9 or 10, open (AMU1O or AMU2O)

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

### **Grade 12 Vocal Music (University/College Preparation - AMV4M)**

Prerequisite: Vocal Music, Grade 11, University/College (AMV3M)

This course emphasizes the appreciation, analysis, and performance of music from the romantic period and from the twentieth century, including jazz, popular music, art music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects in which they make use of new technologies. This course is designed for the intermediate vocalist.

### **Grade 12 Instrumental Music (College- University Preparation - AMU4M)**

Prerequisite: Instrumental Music, Grade 11, University/College (AMU3M)

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.

## VISUAL ART

### **Grade 9 Visual Art (Open - AVI1O)**

Prerequisite: None

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

### **Grade 10 Visual Art (Open - AVI2O)**

Prerequisite: None

Recommended: Visual Arts, grade 9, open (AVI1O)

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. In addition to developing students' existing skills, this course will also explore ceramics, printmaking, painting, and mixed media. In addition to furthering students' existing drawing skills, this course will also explore ceramics/clay sculpture, printmaking, pen and ink, acrylic painting, and mixed media.

### **Grade 10 Crafts (Open - AWA2O)**

Prerequisite: None

Recommended: Visual Arts, grade 9, open (AVI1O)

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. Students will make useful and decorative handmade creations with calligraphy, ceramics and plaster. Students will develop new skills and techniques and make useful and decorative art objects using a variety of artisan materials.

### **Grade 11 Visual Art (University/College Preparation - AVI3M)**

Prerequisite: Visual Arts, grade 9 or 10, open (AVI1O or AVI2O)

Recommended: Both AVI1O and AVI2O

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. Students will create expressive artworks using a variety of specialized media such as watercolour, pen and ink, screen printing and acrylic painting while further developing artistic skills and techniques

### **Grade 11 Crafts (Open – AWA3O)**

Prerequisite: None

Recommended: Visual Arts, grade 9 or 10, open (AVI1O or AVI2O), grade 10 Crafts (AWA2O)

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 artworks 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. Students will create a variety of art objects using traditional and contemporary techniques and materials such as clay, papier mache, and mixed media.

### **Grade 11 Visual Arts - Pottery (Open – AWC3O)**

Prerequisite: None

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 artworks 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.

### **Grade 11 Visual Arts - Photography (Open – AWQ3O)**

Prerequisite: None

This course follows the same curriculum expectations as AVI3O, with a focus on digital photography techniques and photo editing. 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.

### **Grade 12 Visual Art (University/College Preparation - AVI4M)**

Prerequisite: Visual Arts, grade 11, University/College (AVI3M)

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

### **Grade 12 Visual Art - Pottery (Workplace Preparation - AVI4E)**

Prerequisite: None

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

# BUSINESS

Business activity affects the daily lives of all Canadians as they work, spend, save, invest, travel, and play. It influences jobs, incomes, and opportunities for personal enterprise. Eventually, all students will encounter the world of business and they must be prepared to engage in business activity with confidence and competence. All people need to understand how business functions, the role it plays in our society, the opportunities it generates, the skills it requires, and the impact it can have on their own lives and on society, today and in the future. The Business Studies program will teach students skills that they will use for the rest of their lives. The Business Studies program will build a strong foundation for those who wish to move on to further study and training in specialized areas such as management, international business, marketing, accounting, information and communication technology, personal finance or entrepreneurship. It will also provide practical skills for those who wish to move directly into the workplace.

## **Grade 9/10 Introduction to Business and Personal Finance (Open - BBI10/20)**

*Prerequisite:* None

**Note:** Students may select BBI at the Grade 9 OR 10 level (cannot take both).

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

## **Grade 10 Information and Communication Technology in Business (Open - BTT20)**

*Prerequisite:* None

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

## ACCOUNTING

### **Grade 11 Financial Accounting Fundamentals (University/College Preparation - BAF3M)**

*Prerequisite:* None

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

### **Grade 12 Financial Accounting Principles (University/College Preparation - BAT4M)**

*Prerequisite:* Financial Accounting Fundamentals, grade 11, University/College (BAF3M)

Excellent prep for post-secondary studies in accounting! This course introduces students to advanced accounting principles that will prepare them for postsecondary studies in business. Students will learn about financial statements for various forms of business ownership and how those statements are interpreted in making business decisions. This course expands students' knowledge of sources of financing, further develops accounting methods for assets, and introduces accounting for partnerships and corporations.

## ENTREPRENEURSHIP

### **Grade 11 Entrepreneurship: The Venture (College Preparation - BDI3C)**

*Prerequisite:* None

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

### **Grade 12 Entrepreneurship: Venture Planning in an Electronic Age (College Preparation - BDV4C)**

*Prerequisite:* None

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

# INTERNATIONAL BUSINESS

## **Grade 12 International Business Fundamentals (University/College Preparation - BBB4M)**

*Prerequisite:* Any university, university/ college, or college preparation course in Business Studies, English, or Canadian and World Studies.

Enter the exciting world of international trade! 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 businesses effectively. This course prepares students for post-secondary programs in business, including international business, marketing and management.

## MARKETING

## **Grade 11 Marketing: Goods, Services, Events (College Preparation - BMI3C)**

*Prerequisite:* None

Become marketing-savvy! This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer-buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice.

## BUSINESS LEADERSHIP

## **Grade 12 Business Leadership: Management Fundamentals (University/College Preparation - BOH4M)**

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

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

# CANADIAN AND WORLD STUDIES

Studies in Canadian & World Studies provide students with essential knowledge and transferable skills that are applicable not only in their personal lives but provide students with a firm foundation for a variety of postsecondary destinations. While using discipline-specific skills, these courses explore the ways in which individuals influence and are influenced by cultures, societies, institutions, communities and families. They will enable students to become responsible, active and informed citizens who value an inclusive society. Students can select from a variety of courses in the areas of geography, history, civics, law, family studies, general social sciences and native studies.

## GEOGRAPHY

### **Grade 9 Issues in Canadian Geography (Academic - CGC1D)**

Prerequisite: None

This course replaces the applied and academic options with one course code. The instructional strategies and assignments that are used will support a range of student skills and interests. The course is designed through Culturally Relevant and Responsive Pedagogy to develop and enhance real world content and skills.

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

### **Grade 11 Travel and Tourism: A Geographic Perspective (Open - CGG3O)**

Prerequisite: Geography of Canada, Grade 9, Academic or Applied (CGC1P or CGC1D)

This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, socio cultural, 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. This course offers an optional field trip.

### **Grade 12 Environment & Resource Management (University/College Preparation - CGR4M)**

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

This course investigates interactions between natural and human systems, with a particular emphasis on the impacts of human activity on ecosystems and natural processes. Students will use the geographic inquiry process, apply the concepts of geographic thinking, and employ a variety of spatial skills and technologies to analyse these impacts and propose ways of reducing them. In the course of their investigations, they will assess resource management and sustainability practices, as well as related government policies and international accords. They will also consider questions of individual responsibility and environmental stewardship as they explore ways of developing a more sustainable relationship with the environment.

### **Grade 12 Living in a Sustainable World (Workplace Preparation - CGR4E)**

Prerequisite: Geography of Canada, grade 9, Academic or Applied (CGC1P or CGC1D)

This course examines the impact of human activity on the natural environment. Students will explore the use of natural spaces and resources and the effects of planning decisions and consumer choices on natural systems. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate practical solutions to environmental issues, enabling them to make more sustainable decisions at home, in the workplace, and in the local community.

# HISTORY

## **Grade 10 Contemporary Canadian History (Academic - CHC2D)**

Prerequisite: None

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.

## **Grade 10 Contemporary Canadian History (Essential - CHC2L)**

Prerequisite: None

This course focuses on the connection between the student and key people, events and themes in Canadian contemporary studies. Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian Identity, internal and external relationships and changes since 1914, are explored through guided investigation. Students have the opportunity to extend analytical skills with a focus on identifying and interpreting events and perspectives and making connections. Students practice reading, writing, visual, and oral literacy skills, and mathematical literacy skills to identify and communicate ideas in a variety of media.

## **Grade 10 Contemporary Canadian History (Applied - CHC2P)**

Prerequisite: None

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.

## **Grade 11 World History to Sixteenth Century (University/College Prep - CHW3M)**

Prerequisite: Canadian History, Grade 10, Academic or Applied (CHC2P or CHC2D)

This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 BC. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. 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.

## **Grade 12 Adventures in World History (Workplace Preparation - CHM4E)**

Prerequisite: Canadian History, Grade 10, Academic or Applied (CHC2P or CHC2D)

This course examines significant developments and events in world history from earliest times to the present. Students will explore a variety of social, cultural, economic, and political developments in different regions of the world and during different periods. In addition to investigating how conflict, religion, work, and technology have helped shape people's lives, students will examine the contributions of some significant individuals to our global heritage. 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.

## **Grade 12 World History Since the Fifteenth Century (University Preparation - CHY4U)**

Prerequisite: Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.

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.

## **Grade 12 World History Since the Fifteenth Century (College Preparation - CHY4C)**

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

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

## CIVICS

### **Grade 10 Civics (Open - CHV20)**

**Prerequisite:** None

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.

(This is a 0.5 credit, offered consecutively with 0.5 Careers for all grade 10 students.)

**Note:** This course will also be offered for students taking the Physical Education Hockey course. Students must choose FTEHOC to add the Hockey Program to their Course Selection (Includes GLC20 and CHV20, both are .5 credit, and PAL20)

## LAW

### **Grade 11 Understanding Canadian Law (Workplace Preparation - CLU3E)**

**Prerequisite:** Canadian History, Grade 10, Academic or Applied (CHC2P or CHC2D)

This course enables students to develop a practical understanding of laws that affect the everyday lives of people in Canada, including their own lives. Students will gain an understanding of the need for laws, and of their rights, freedoms, and responsibilities under Canadian law. Topics include laws relating to marriage, the workplace, cyberbullying, and criminal offences. Students will begin to develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating legal issues that are relevant to life in Canada today.

### **Grade 11 Understanding Canadian Law (University/College Preparation - CLU3M)**

**Prerequisite:** Canadian History, Grade 10, Academic or Applied (CHC2P or CHC2D)

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 laws relating to rights and freedoms in Canada; our legal system; and family, contract, employment, tort, and criminal law. Students will develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating a range of legal issues and formulating and communicating informed opinions about them.

### **Grade 12 Canadian and International Law (University Preparation - CLN4U)**

**Prerequisite:** Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.

This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop an understanding of the principles of Canadian and international law and of issues related to human rights and freedoms, conflict resolution, and criminal, environmental, and workplace law, both in Canada and internationally. Students will apply the concepts of legal thinking and the legal studies inquiry process, and will develop legal reasoning skills, when investigating these and other issues in both Canadian and international contexts.

## COMPUTER STUDIES

### **Grade 11 Introduction to Computer Science (University Preparation - ICS3U)**

**Prerequisite:** None

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

# CO-OPERATIVE EDUCATION

Co-operative Education is a Ministry-approved program that allows students to earn secondary school credits while completing a work placement. The program consists of a Co-op course monitored by a Co-operative education teacher, a related curriculum course in any subject, and a work placement. Co-op programs are for secondary students who are heading to an apprenticeship, college, university or the workplace. Visit the Co-op website: <https://www.ugdsb.ca/coop/>

## SCHOOL TO CAREER PROGRAMS

School to Career Programs provide all students with a series of unique opportunities to learn about the world of work, explore potential careers, and gain valuable work experience. These planned learning experiences assist all students, whether bound for college, apprenticeship, university or the workplace, in making informed career decisions, and in developing the knowledge, skills and attitudes that are essential in today's society. All programs include Experiential Learning as an integral part of the experience.

Co-operative Education is a program that allows students to refine, extend, apply and practice classroom learning into supervised placements in the community. Co-operative Education courses cannot be used to meet the course requirements (6 U or U/M courses) for university admission.

### Co-op will enable you to:

- explore future career possibilities and meet SHSM requirements,
- understand employer expectations in real job situations,
- develop a positive self-image,
- obtain the work experience often required by college and university programs,
- apply and expand classroom knowledge,
- work with state-of-the-art equipment and technology,
- benefit from the expertise of people in your community,
- develop the essential skills and the employability skills necessary for success in the workplace.

### How Does Co-op Work?

- The program combines a full semester, half-day or full-day work placement in the community with a school-based classroom component. Students are expected to be at their placement for three - six hours per day.
- A mandatory pre-placement classroom component prepares students for work through health and safety training, self-assessment tasks, and lessons on résumé and interview skills, confidentiality and employer expectations.
- Students must successfully interview with a community employer prior to placement.
- Competitive interviews may be conducted; students are not guaranteed a specific placement.
- Students return to the classroom on a regular basis to share experiences, develop further skills and present assignments.
- The co-op teacher monitors the work of the student at the placement and works in consultation with the workplace supervisor to develop the curriculum (the Personalized Placement Learning Plan) to ensure that a meaningful experience takes place.
- Regular Job Performance Appraisals are completed by the employer, in conjunction with the teacher.
- Credits are earned by the submission of weekly reports, assignments, and the completion of the required number of hours at the placement.
- Students are not paid while on the job during regular school time but earn credits for their work term.
- Transportation costs, personal protective equipment and immunization required by the placement, are the responsibility of the student.
- Accident & liability insurance is carried by the School Board on the same basis as in-school programs.

### How to apply for Co-operative Education:

- Select FTEC02 or FTEC04 for two or four credit Co-op in My Blueprint.
- Participate in a structured interview with the Co-op teacher(s).

Career Co-operative Education

Co-op placements are available in most subject areas and are influenced by employer availability. Co-op employment includes sectors such as technology, health and wellness, social services, business, hospitality and others. Dual Credit and OYAP programs are additional options for Co-op students. Students will investigate trends and resources to support their post-secondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals.

### Cooperative Education Linked to a Related Course (or Courses), Half-Day (Open – FTECO2) or Full-Day (Open - FTECO4)

Prerequisite: None

This course consists of a community-connected experience and a cooperative education curriculum that incorporates relevant expectations from the student's related course (or courses). Students will develop skills, knowledge, and habits of mind that will support them in their learning at school and beyond, today and in the future, as well as in their education and career/life planning. Within the context of the community-connected experience, students will apply, extend, and refine skills and knowledge acquired in their related course or courses and will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being. They will



create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives.

### **EXPERIENTIAL LEARNING**

These programs are designed to prepare students for work and to introduce them to specific career areas. Students interested in any of these programs should contact Student Services for additional information.

### **ONTARIO YOUTH APPRENTICESHIP PROGRAM (OYAP)**

The Ontario Youth Apprenticeship Program (OYAP) is a School to Work program that opens the door for students to explore and work in apprenticeship occupations starting in Grade 11 or Grade 12 through the Co-operative Education program. Students have an opportunity to become registered apprentices and work towards becoming a certified journeyman in a skilled trade while completing their secondary school diploma. Visit the OYAP website: <http://oyap.info/>

# ENGLISH

The English program in Grades 9 to 12 includes compulsory and optional courses. The compulsory courses emphasize strong core competencies in oral communication, reading and literature studies, writing, and media studies. As part of their program in Grades 11 and 12, students must take one compulsory course in English in each grade. They may choose their compulsory courses from three types of courses in Grades 11 and 12: university preparation, college preparation, and workplace preparation.

Optional courses provide students with opportunities to explore individual interests and to deepen or extend some of the knowledge and skills acquired in the compulsory courses. Regardless of their postsecondary destination, all students need to realize that literacy skills are employability skills. Powerful literacy skills will equip students to manage information technologies, communicate effectively and correctly in a variety of situations, and perform a variety of tasks required in most work environments.

English at both the College and University preparation level improves English language skills, including writing, reading and critical thinking. ENG4U and ENG4C are required courses for all postsecondary pathways leading to careers in all economic sectors. A minimum mark of 70% is typically required for College and University acceptance.

**Grade 12 English is a SHSM requirement in all sectors.**

**For English, possible careers include:**

**Apprenticeship** – educational assistant, printing press

**College** – court recorder, editorial assistant, journalist, writer

**University** – critic, editor, elementary school teacher, journalist, linguist, secondary school teacher, translator, writer

**Entry level workplace** – sales, event planning

## **Grade 9 English (Academic - ENG1D)**

*Prerequisite:* None

This course replaces the applied and academic options with one course code. The instructional strategies and assignments that are used will support a range of student skills and interests. The course is designed through Culturally Relevant and Responsive Pedagogy to develop and enhance real world content and skills.

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

## **Grade 9 English (Essential - ENG1L)**

*Prerequisite:* None

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 10 Workplace Preparation course. The course is organized by strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

## **Grade 10 English (Academic - ENG2D)**

*Prerequisite:* English, Grade 9, Academic or Applied (ENG1D or ENG1P)

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

## **Grade 10 English (Essential - ENG2L)**

*Prerequisite:* A Grade 9 English credit

This course provides extended foundational literacy and communication skills to prepare students 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.

### **Grade 10 English (Applied - ENG2P)**

Prerequisite: English, Grade 9, Applied or Academic (ENG1P or ENG1D)

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

### **Grade 11 English (College Preparation - ENG3C)**

Prerequisite: English, Grade 10, Applied or Academic (ENG2P or ENG2D)

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

### **Grade 11 English (Workplace Preparation - ENG3E)**

Prerequisite: Grade 10 English

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

### **Grade 11 English (University Preparation - ENG3U)**

Prerequisite: English, Grade 10, Academic (ENG2D)

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

### **Grade 12 English (College Preparation - ENG4C)**

Prerequisite: English, Grade 11, College or University (ENG3C or ENG3U)

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

### **Grade 12 English (Workplace Preparation - ENG4E)**

Prerequisite: Grade 11 English

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

### **Grade 12 English (University Preparation - ENG4U)**

Prerequisite: English, Grade 11, University (ENG3U)

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

### **Grade 12 Literacy Course (Open - OLC4O)**

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

# FIRST NATIONS, MÉTIS AND INUIT STUDIES

## Grade 11 Contemporary First Nations, Métis, and Inuit Issues and Perspectives (University/College Preparation - NDA3M)

Prerequisite: First Nations, Métis, and Inuit in Canada, Open (NAC2O)

This course explores existing and emerging issues of local, regional, and national importance to First Nations, Métis, and Inuit in Canada. Students will analyse diverse perspectives on issues and events related to land, community, governance, identity, culture, and global trends. Using the concepts of political thinking and the tools of political inquiry, students will explore their own and others' ideas and investigate issues to determine what needs to change and why. Students are also given the opportunity to develop their own problem-solving strategies to address an issue of their choice. **This course is offered in alternating years. It will be available for selection for the 2023-2024 school year.**

# FRENCH AND INTERNATIONAL LANGUAGES

CWDHS offers programs in Core French, French Immersion and Spanish.

The ability to speak two or more languages greatly increases career choices and mobility. Studies prove that studying languages enhances cognitive development, reasoning and creative-thinking skills. Problem-solving and sound communication skills are two of the most highly valued skills in today's global job market. Proficiency in more than one language prepares you to compete successfully for jobs in a global economy and expands your career opportunities.

## Possible career sectors using French include:

- Media (Journalism) and film industry
- Tourism and travel services Industry including airlines and hotels
- Banks and insurance companies
- Local, Provincial and Federal governments
- International non-profit organizations
- Publishing companies
- Department of Defense and international embassies.
- Representatives in foreign companies
- Health services
- Social services
- Immigration services
- Elementary schools, high schools, universities and colleges
- Customer Service Representatives (IT support)
- Translation and Interpretation

Speaking another language enables you to travel, explore and understand new cultures, and fully appreciate the diversity Canada offers. You will also develop a greater awareness of global issues, including those related to the environment and sustainability.

Studying other languages develops and reinforces literacy skills, enriches your English vocabulary and enables you to gain a deeper understanding of how language works.

Two credits in French as a second language beyond the grade 9 level can count as compulsory credits from group 1 and either group 2 or group 3 of the list of required courses for graduation.

A credit in Spanish can count as a compulsory credit from group 1 of the list of required courses for graduation.

## CORE FRENCH

The Core French program offers you the opportunity to complete 4 courses in which the language of the classroom is French:

Grade 9	Grade 10	Grade 11	Grade 12
FSF1D	FSF2D or FSF2P	FSF3U	FSF4U

Co-operative Education with a French work placement is also available. You earn 1 French credit for the work placement component and 1 English credit for the classroom component of the course.

### Grade 9 Core French (Academic - FSF1D)

**Prerequisite:** Minimum of 600 hours of French instruction, or equivalent.

This course replaces the applied and academic options with one course code. The instructional strategies and assignments that are used will support a range of student skills and interests. The course is designed through Culturally Relevant and Responsive Pedagogy to develop and enhance real world content and skills.

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

**Grade 10 Core French (Academic - FSF2D)**

Prerequisite: Core French, Grade 9, Academic (FSF1D)

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 develop their skills in listening, speaking, reading, and writing 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 develop skills necessary for lifelong language learning.

**Grade 10 Core French (Applied - FSF2P)**

Prerequisite: Core French, Grade 9, Applied or Academic (FSF1P or FSF1D)

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 develop their skills in listening, speaking, reading, and writing through using language learning strategies for understanding texts and communicating clearly. They will also increase their understanding and appreciation of diverse French-speaking communities and will develop skills necessary for lifelong language learning.

**Grade 11 Core French (University Preparation - FSF3U)**

Prerequisite: Core French, Grade 10, Academic (FSF2D)

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

**Grade 12 Core French (University Preparation - FSF4U)**

Prerequisite: Core French, Grade 11, University (FSF3U)

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

**A Certificate of Core French Studies is awarded at Graduation to students who complete 4 credits of Core French, including 2 senior level courses.**

## IMMERSION FRENCH

The French Immersion program requires you to complete a minimum of 10 courses in which the language of the classroom is French:

Grade 9	Grade 10	Grade 11	Grade 12
FIF1D (French Immersion)	FIF2D (French Immersion)	FIF3U (French Immersion)	FIF4U (French Immersion)
CGC1DF (Geography)	CHC2DF (History)		*NDW4MF (Questions d'actualité et perspectives autochtones dans un contexte Mondial)
MTH1WF (Math)	MPM2DF (Math)		
	CHV2OF/GLC2OF (Civics and Careers)		

*\* It is strongly recommended that FI students take this course in their Grade 11 year.*

Co-operative Education with a French work placement is also available. You earn 1 French credit in a half day co-op program.

**A Certificate of French Immersion Studies is awarded at graduation to each student who completes a full French Immersion program of the four FIF language courses plus a minimum of six other courses in which the language of the classroom is French.**

### **Grade 9 French Immersion (Academic - FIF1D)**

*Prerequisite:* Minimum of 3800 hours of French instruction, or equivalent.

This course replaces the applied and academic options with one course code. The instructional strategies and assignments that are used will support a range of student skills and interests. The course is designed through Culturally Relevant and Responsive Pedagogy to develop and enhance real world content and skills.

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

### **Grade 9 Issues in Canadian Geography (Academic - CGC1DF)**

*Prerequisite:* Minimum of 3800 hours of French instruction, or equivalent.

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

### **Grade 9 Principles of Mathematics (MTH1WF)**

*Prerequisite:* Minimum of 3800 hours of French instruction, or equivalent.

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

### **Grade 10 French Immersion (Academic - FIF2D)**

*Prerequisite:* French Immersion, Grade 9, Academic (FIF1D)

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

### **Grade 10 Civics (Open - CHV2OF)**

*Prerequisite:* Minimum of 3800 hours of French instruction, or equivalent.

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. \*In this course, French is the language of instruction, production, and interaction.

### **Grade 10 Contemporary Canadian History (Academic - CHC2DF)**

*Prerequisite:* Minimum of 3800 hours of French instruction, or equivalent.

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. \*In this course, French is the language of instruction, production, and interaction.

### **Grade 10 Career Studies (Open - GLC2OF)**

*Prerequisite:* Minimum of 3800 hours of French instruction, or equivalent.

This course teaches students how to develop and achieve personal goals for future learning, work and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores post-secondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan. \*In this course, French is the language of instruction, production, and interaction.

### **Grade 10 Principles of Mathematics (Academic - MPM2DF)**

Prerequisite: Mathematics, Grade 9, Academic (MPM1DF)

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

### **Grade 11 French Immersion (University Preparation - FIF3U)**

Prerequisite: French Immersion, Grade 10, Academic (FIF2D)

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

### **Grade 12 French Immersion (University Preparation - FIF4U)**

Prerequisite: French Immersion, Grade 11, University (FIF3U)

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

### **Grade 12 Contemporary Indigenous Issues and Perspectives in a Global Context (University/College Preparation NDW4MF)**

Prerequisite: French Immersion, Grade 10, Academic (FIF2D)

**It is strongly recommended that FI students take that course in their Gr. 11 year**

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 people and use information technology to consult materials related to the views of indigenous peoples throughout the world.

\*In this course, French is the language of instruction, production, and interaction. Grade 10 students are encouraged to select this course for their Grade 11 or 12 year.

## SPANISH

Spanish, the second most widely spoken language in the world, is the official language of 21 countries and the unofficial second language of our closest neighbour and trading partner, the United States. Spoken by over 470 million people on 5 continents, Spanish is an essential language in our global economy, with Canadian business and industry rapidly expanding into Mexico, Central and South America. A functional knowledge of Spanish will improve your employability by enhancing your communicative skills and expanding your cultural awareness and understanding. Both are essential to the world of travel, government, finance, high tech, commercial and industrial job markets.

### **Grade 10 Spanish (Academic - LWSBD)**

Prerequisite: None

This course provides opportunities for students to begin to develop and apply skills in listening, speaking, reading, and writing in the language of study. Students will communicate and interact in structured activities, with a focus on matters of personal interest and familiar topics and will read and write simple texts in the language. Throughout the course, students will acquire an understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also develop skills necessary for lifelong language learning.

### **Grade 11 Spanish (University Preparation - LWSCU)**

Prerequisite: Spanish, Grade 10, Academic (LWSBD)

This course provides opportunities for students to increase their competence and confidence in listening, speaking, reading, and writing in the language of study. Students will communicate about academic and personally relevant topics in increasingly spontaneous spoken interactions and will develop their creative and critical thinking skills through exploring and responding to a variety of oral and written texts. Students will continue to enrich their understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also investigate personal and professional contexts in which knowledge of the language is required, and develop skills necessary for lifelong language learning.



## **Grade 12 Spanish (University Preparation – LWSDU)**

*Prerequisite:* Spanish, Grade 11, Academic (LWSCU)

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 skill needed to engage in sustained conversations and discussions, understand and evaluate information, read diverse materials for both study and pleasure, and write clearly and effectively. Students will also have opportunities to add to their knowledge of the culture of countries where the language is spoken through the use of community resources and computer technology.

# GUIDANCE AND CAREER STUDIES

## **Learning Strategies: Skills for Success in Secondary School (GLE10)**

These courses explore learning strategies and help 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. These courses will increase students' confidence, motivation, and ability to learn. \*Enrollment is through consultation with Special Education and Student Success teachers.

## **Grade 10 Career Studies (Open - GLC20)**

*Prerequisite:* None

This course teaches students how to develop and achieve personal goals for future learning, work and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores post-secondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan. (This is a 0.5 credit, offered consecutively with 0.5 Civics for all grade 10 students)

**Note 1:** This course will also be offered for French Immersion students (GLC20F)

**Note 2:** This course will also be offered for students taking the Physical Education Hockey course. **Students must choose FTEHOC to add the Hockey Program to their Course Selection (Includes GLC20 and CHV20, both are .5 credit and PAL20)**

# HEALTH AND PHYSICAL EDUCATION

The health and physical education (HPE) programs promote enjoyment of, and regular participation in, physical activity, and healthy active living. Students will develop: an understanding of the importance of physical fitness, health, and well-being and the factors that contribute to them; a personal commitment to daily vigorous physical activity and positive health behaviours; the skills and knowledge they require to participate in physical activities throughout their lives. The Grade 12 university preparation course entitled Exercise Science will prepare students for university programs in physical education, kinesiology, recreation, sports administration, and health sciences.

## **Grade 9 Healthy Active Living (Open - PPL10X, female or PPL10Y, male)**

*Prerequisite:* None

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.

## **Grade 10 Personal and Fitness Activities – Live Fit (Open - PAF20X, female)**

*Prerequisite:* None

This course emphasizes regular participation in various enjoyable non-traditional activities to promote lifelong healthy active living. Students will be encouraged to develop personal competence through aerobics, fitness & weight training, dance, self-defense, orienteering, outdoor fitness, badminton, tennis, and other recreational activities. Students will also study the components of nutrition, diet analysis, stress management and relaxation. Students will also develop personal strategies to deal effectively with relationships, sexuality, violence, and substance abuse through reports, guest speakers, and labs. A course fee for community facilities may be charged.

## **Grade 10 Large Group Activities - Hockey Focus (Open - FTEHOC)**

*Prerequisite:* None

Student must choose FTEHOC to add the Hockey Program to their Course Selection

This course is a physical education program for large group activities with a focus on ice hockey. This is a skills program offered to both boys and girls following the Hockey Canada Skill Academy Program. There will be both on-ice and off-ice components and the Grade 10 Health curriculum. Grade 11 or 12 students taking the course must select GLD201.

**Note:** There is a course fee of \$340.00.

## **Grade 10 Healthy Active Living (Open - PPL20X/20Y)**

*Prerequisite:* None

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.

A course fee may be charged for additional activities and community facilities.

## **Grade 11 Outdoor Education (Open - PAD30)**

*Prerequisite:* Interview with instructor.

This is a co-ed focus course with an emphasis on outdoor education activities to develop the Healthy Active Living concepts. This course offers students an introduction to the fundamentals of camping, canoeing, hiking, cross-country skiing, snowshoeing, swimming, orienteering, survival skills and wilderness first aid. The focus is on how to prepare for, and safely participate, in these activities and to encourage an appreciation for the outdoors and what it has to offer.

The out-of-school component of this course will involve a mandatory 5-day wilderness canoe and camping trip. The cost of the canoe/camping trip will be approximately \$350.00 plus food. This course is an acceptable prerequisite for level four courses. To ensure suitability for this course, students will be interviewed before being admitted. Students will not be admitted to the course more than 4 days after the semester begins.

**Note:** You may take both PPL 30X/Y and PAD30 for 2 credits.

## **Grade 11 Healthy Active Living (Open - PPL30X, female or PPL30Y, male)**

*Prerequisite:* None

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 exposure to 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.

### **Grade 11 Personal and Fitness Activities (Open – PAF30)**

Prerequisite: None

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students' interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills, and will be given opportunities to practice goal setting, decision-making, coping, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety. Course focus includes basic weight training and aerobic related activities. A course fee for community facilities may be charged.

### **Grade 12 Outdoor Adventures (Open - PAD40)**

Prerequisite: Outdoor Education, Grade 11, Open (PAD30), Interview with instructor.

This course focuses on the development of leadership and coordination skills related to advanced outdoor education and other 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 outdoor activities. The course will prepare students for college programs in recreational, leisure, and fitness leadership. The out-of-school component of this course will involve a mandatory 5 day wilderness canoe and camping trip. The cost of the canoe/camping trip will be approximately \$350.00 plus food. To ensure suitability for this course, students will be interviewed before being admitted. Students will not be admitted to the course more than 4 days after the semester begins.

### **Grade 12 Large Group Activities (Open - PAL40)**

Prerequisite: None

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

### **Grade 12 Introductory Kinesiology (University Preparation - PSK4U)**

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

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

# MATHEMATICS

The mathematics curriculum is designed to help students prepare for university, college, or the workplace by building a solid conceptual foundation in mathematics that will enable them to apply their knowledge and skills in a variety of ways and further their learning successfully. A variety of mathematics courses are offered from grade 9 to 12, and students must earn three credits to obtain the Ontario Secondary School Diploma. Mathematics plays a key role in all Specialist High Skills Major (SHSM) programs and is linked to a wide variety of placements in cooperative education programs.

## **Possible careers in mathematics include:**

**Apprenticeship and College:** Tool and Die Maker, General Carpenter, Cabinet Maker, General Machinist, Industrial Mechanical Millwright, Electrician, Auto Mechanic, Avionics Technician

**University:** Mechanical/Civil Engineer, Statistician, Methodologist, Math Teacher, Architect, Aerospace Engineer, Accountant, Architectural Assistant, Senior Draftsperson, Pilot, Air Traffic Controller, Actuary, Computer Science, Systems Analyst, Insurance Agent

**Entry level workplace:** Cashier, Bank Teller, Bookkeeper, Tile Setter, Building Superintendent, Flight Attendant, Sales Representative

## **Grade 9 Foundations of Mathematics (MTH1W)**

**Prerequisite:** None

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

## **Grade 9 Mathematics (Locally Developed - MAT1L)**

**Prerequisite:** None

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

## **Grade 10 Foundations of Mathematics (Applied - MFM2P)**

**Prerequisite:** Grade 9 Mathematics, Destreamed (MTH1W)

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

## **Grade 10 Mathematics (Locally Developed - MAT2L)**

**Prerequisite:** Grade 9 Mathematics

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 Grade 11 Mathematics Workplace Preparation course. The course is organized in 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.

## **Grade 10 Principles of Mathematics (Academic - MPM2D)**

**Prerequisite:** Grade 9 Mathematics, Destreamed (MTH1W)

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

## **Grade 11 Foundations for College Mathematics (College Preparation - MBF3C)**

**Prerequisite:** Grade 10 Mathematics, Applied (MFM2P)

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; 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.

### **Grade 11 Functions (University Preparation - MCR3U)**

Prerequisite: Grade 10 Mathematics, Academic (MPM2D)

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.

### **Grade 11 Functions and Applications (University/College Preparation - MCF3M)**

Prerequisite: Grade 10 Mathematics, Academic or Applied (MPM2D or MFM2P)

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.

### **Grade 11 Mathematics for Work and Everyday Life (Workplace Preparation - MEL3E)**

Prerequisite: Grade 9 Mathematics (MTH1W) or Grade 10 Mathematics, Locally Developed (MAT2L)

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.

### **Grade 12 Foundations for College Mathematics (College Preparation - MAP4C)**

Prerequisite: Grade 11 Functions and Applications, University/College (MCF3M) or Grade 11 Foundations for College Mathematics, College (MBF3C)

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; solve financial problems connected with annuities, budgets, and renting or owning accommodation; 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.

### **Grade 12 Mathematics for College Technology (College Preparation - MCT4C)**

Prerequisite: Grade 11 Functions, University (MCR3U) or Grade 11 Functions and Applications, University/College (MCF3M)

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.

### **Grade 12 Calculus and Vectors (University Preparation - MCV4U)**

Prerequisite: Grade 12 Advanced Functions, University (MHF4U)

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical 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 choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.

### **Grade 12 Mathematics of Data Management (University Preparation - MDM4U)**

Prerequisite: Grade 11 Functions, University (MCR3U) or Grade 11 Functions and Applications, University/College (MCF3M)

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analyzing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation 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.

### **Grade 12 Mathematics for Work and Everyday Life (Workplace Preparation - MEL4E)**

Prerequisite: A credit in Grade 11 Mathematics

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, create household budgets, and prepare a personal income tax return; 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.

**Grade 12 Advanced Functions (University Preparation - MHF4U)**

Prerequisite: Grade 11 Functions, University (MCR3U) or Grade 12 Mathematics for College Technology, College (MCT4C)

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 taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

# SCIENCE

Why study science? A high-quality science curriculum gives students the knowledge and skills to participate in many exciting post-secondary opportunities in science and technology. All students are required to earn two (2) science credits to graduate. However, students wishing to pursue science at the university level will be expected to take U-level courses beyond grade 10. Students considering college programs will be required to take courses at the C-level or U-level. In either case students are strongly advised to seek help from our Guidance department regarding course requirements and minimum grade requirements for post-secondary programs you may be interested in. We also offer several M-level courses for students who may have a general interest in science but may not wish to pursue science as a career. Finally, Specialist High Skills Major (SHSM) is offered in both Healthcare and Environmental Science.

## **Grade 9 Science (Destreamed - SNC1W)**

Prerequisite: None

TBD

## **Grade 9 Science (Essential - SNC1L)**

Prerequisite: None

This is an introductory course in science that will allow you to learn about the basic concepts involved in biology, chemistry, physics and scientific inquiry. Each of these topics explore a range of topics including life-sustaining processes in simple and complex organisms, properties of common materials, electrical circuits and science in daily life. The course is designed to help you develop your mathematical and scientific process skills and to continue developing your skills in reading, writing and oral language through practical and relevant science activities. You will be asked to design and conduct investigations related to the 4 topics of study allowing you to put your practical problem solving abilities to use and to apply your knowledge of science to everyday situations. This course will provide you with considerable knowledge in science and prepare you for the next level of study and success in everyday life. If you wish to continue to study science this course prepares you for the Grade 11 Workplace Preparation course.

## **Grade 10 Science (Academic - SNC2D)**

Prerequisite: Science, Grade 9, Academic or Applied (SNC1D or SNC1P)

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.

## **Grade 10 Science (Essential - SNC2L)**

Prerequisite: None

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

## **Grade 10 Science (Applied - SNC2P)**

Prerequisite: Science, Grade 9, Applied or Academic (SNC1P or SNC1D)

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.

## **Grade 12 Science (Workplace Preparation - SNC4E)**

Prerequisite: Science, Grade 10, Applied or Academic (SNC2P or SNC2D)

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.



### **Grade 12 Science (University/College Preparation - SNC4M)**

Prerequisite: Science, Grade 10, Applied or Academic (SNC2P or SNC2D)

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

## BIOLOGY

### **Grade 11 Biology (College Preparation - SBI3C)**

Prerequisite: Science, Grade 10, Applied or Academic (SNC2P or SNC2D)

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.

### **Grade 11 Biology (University Preparation - SBI3U)**

Prerequisite: Science, Grade 10, Academic (SNC2D)

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.

### **Grade 12 Biology (University Preparation - SBI4U)**

Prerequisite: Biology, Grade 11, University (SBI3U)

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.

## CHEMISTRY

### **Grade 11 Chemistry (University Preparation - SCH3U)**

Prerequisite: Science, Grade 10, Academic (SNC2D)

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 behavior 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.

### **Grade 12 Chemistry (College Preparation - SCH4C)**

Prerequisite: Science, Grade 10, Applied or Academic (SNC2P or SNC2D)

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.

### **Grade 12 Chemistry (University Preparation - SCH4U)**

Prerequisite: Chemistry, Grade 11, University (SCH3U)

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.

## ENVIRONMENTAL SCIENCE

### **Grade 11 Environmental Science (University/College Preparation – SVN3M)**

**Prerequisite:** Science, Grade 10, Applied or Academic (SNC2P or SNC2D)

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

### **Grade 11 Environmental Science (Workplace Preparation – SVN3E)**

**Prerequisite:** Science, Grade 9, Applied or Academic (SNC2P or SNC2D), or a Grade 9 or 10 locally developed science course (SNC1L or SNC2L)

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in work and life after secondary school. Students will explore a range of topics, including the impact of human activities on the environment; human health and the environment; energy conservation; resource science and management; and safety and environmental responsibility in the workplace. Emphasis is placed on relevant, practical applications and current topics in environmental science, with attention to the refinement of students' literacy and mathematical literacy skills as well as the development of their scientific and environmental literacy.

## PHYSICS

### **Grade 11 Physics (University Preparation - SPH3U)**

**Prerequisite:** Science, Grade 10, Academic (SNC2D)

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.

### **Grade 12 Physics (College Preparation - SPH4C)**

**Prerequisite:** Science, Grade 10, Applied or Academic (SNC2P or SNC2D)

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

### **Grade 12 Physics (University Preparation - SPH4U)**

**Prerequisite:** Physics, Grade 11, University (SPH3U)

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.

# SOCIAL SCIENCES AND HUMANITIES

## EQUITY STUDIES

### **Grade 12 Equity and Social Justice: From Theory to Practice (University/College – HSE4M)**

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

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

## FAMILY STUDIES

### **Grade 9 Food and Nutrition (Open - HFN10)**

*Prerequisite:* None

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.

### **Grade 11 Raising Healthy Children (Open - HPC30)**

*Prerequisite:* None

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.

### **Grade 12 Families in Canada (College Preparation - HHS4C)**

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

This course enables students to develop an understanding of social science theories as they apply to individual development, the development of intimate relationships, and family and parent-child relationships. Students will explore a range of issues relating to the development of individuals and families in contemporary Canadian society as well as in other cultures and historical periods. They will develop the investigative skills required to conduct research on individuals, intimate relationships, and parent-child roles and relationships in Canada.

### **Grade 12 Families in Canada (University Preparation - HHS4U)**

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

This course enables students to draw on sociological, psychological, and anthropological theories and research to analyze the development of individuals, intimate relationships, and family and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. They will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. They will develop the investigative skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships.

### **Grade 12 Personal Life Management (Open - HIP4O)**

*Prerequisite:* None

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.

### **Grade 12 Working with School-Age Children and Adolescents (College Preparation - HPD4C)**

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

This course prepares students for occupations involving school-age children and adolescents. Students will study a variety of theories about child behavior and development, and will have opportunities for research and observation

and for practical experiences with older children. Students will become familiar with occupational opportunities and requirements related to working with older children and adolescents. They will develop research skills used in investigating child and adolescent behavior and development.

## GENERAL SOCIAL SCIENCES

### **Grade 11 Introduction to Anthropology, Psychology, and Sociology (University Preparation - HSP3U)**

*Prerequisite:* English, grade 10, academic (ENG2D) or Canadian History, grade 10, academic (CHC2D)

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.

### **Grade 11 Introduction to Anthropology, Psychology, and Sociology (College Preparation - HSP3C)**

*Prerequisite:* None

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

### **Grade 12 Challenge and Change in Society (University Preparation - HSB4U)**

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

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 behavioral 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.

## PHILOSOPHY

### **Grade 11 Philosophy: The Big Questions (University/College Preparation - HZB3M)**

*Prerequisite:* None

This course encourages exploration of philosophy's big questions, such as: What is a meaningful life? What separates right from wrong? What constitutes knowledge? What makes something beautiful? What is a just society? Students will develop critical thinking and philosophical reasoning skills as they identify and analyze the responses of philosophers to the big questions and formulate their own response to them. Students will explore the relevance of philosophical questions to society and to their everyday life. They will develop research and inquiry skills as they investigate various topics in philosophy.

# TECHNOLOGICAL EDUCATION

Technological innovation influences all areas of life, from the daily lives of individuals to the work of business and government, to interactions on a global scale. It helps meet basic human needs and provides tools for improving people's lives and exploring new frontiers. The policy outlined in this document is designed to ensure that technological education in Ontario enables students to meet the challenges and opportunities of the twenty-first century.

## INTEGRATED TECHNOLOGY

### **Grade 9 Integrated Technologies (Open - TIJ1O)**

*Prerequisite: None*

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

## COMPUTER TECHNOLOGY

### **Grade 9 Exploring Computer Technology (Open - TEJ1O)**

*Prerequisite: None*

This exploratory course introduces students to concepts and skills in computer technology, including computer systems, information technology, networking, electronics and programming. Students will develop an awareness of related environmental and societal issues and will begin to explore secondary and postsecondary pathways leading to careers in this much sought-after field.

### **Grade 10 Computer Technology (Open – TEJ2O)**

*Prerequisite: None*

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

### **Grade 11 Computer Engineering Technology (University/College Preparation - TEJ3M)**

*Prerequisite: None*

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

### **Grade 11 Computer Engineering Technology Extension Course – TEJ3M2**

*Co-requisite or prerequisite: TEJ3M*

This course follows the same curriculum expectations as *TEJ3M*. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

### **Grade 11 Software Engineering Technology (University/College Preparation - TGI3M)**

*Prerequisite: None*

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

### **Grade 12 Computer Engineering Technology (University/College Preparation- TEJ4M)**

Prerequisite: Grade 11, Computer Engineering Technology, (University/ College, TEJ3M)

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

### **Grade 12 Computer Engineering Technology Extension Course TEJ4M2**

Co-requisite or prerequisite: TEJ4M

This course follows the same curriculum expectations as TEJ4M. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

### **Grade 12 Software Engineering Technology (University/College Preparation - TGI4M)**

Prerequisite: Grade 11, Software Engineering, (University/ College, TGI3M)

The senior students in this software engineering course take on the role of team and project leads. While continuing to sharpen their hand at coding they will also develop team management and leadership skills commonly found in the software industry. As team leads, they are also instrumental in authoring the direction of this course's software project. Students will gain valuable experience that will allow them to quickly integrate into post-secondary and industry software engineering processes.

## CONSTRUCTION

### **Grade 10 Construction Technology (Open - TCJ2O)**

Prerequisite: None

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.

### **Grade 11 Construction Technology (Workplace Preparation - TCJ3E)**

Prerequisite: None

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

### **Grade 11 Construction Technology Extension Course - TCJ3E2**

Co-requisite or prerequisite: TCJ3E

This course follows the same curriculum expectations as TCJ3E. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

### **Grade 11 Custom Woodworking (Workplace Preparation - TWJ3E)**

Prerequisite: None

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.

### **Grade 11 Custom Woodworking Extension Course - TWJ3E2**

Co-requisite or prerequisite: TWJ3E

This course follows the same curriculum expectations as TWJ3E. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

### **Grade 12 Construction Technology (Workplace Preparation - TCJ4E)**

Prerequisite: Grade 11, Construction Technology (Workplace, TCJ3E)

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.

### **Grade 12 Construction Technology Extension Course - TCJ4E2**

Co-requisite or prerequisite: TCJ4E

This course follows the same curriculum expectations as TCJ4E. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

### **Grade 12 Custom Woodworking (Workplace Preparation - TWJ4E)**

Prerequisite: Custom Woodworking, Grade 11, (Workplace, TWJ3E)

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.

### **Grade 12 Custom Woodworking Extension Course - TWJ4E2**

Co-requisite or prerequisite: TWJ4E

This course follows the same curriculum expectations as TWJ4E. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

## COSMETOLOGY

### **Grade 10, Hairstyling and Aesthetics (Open - TXJ20)**

Prerequisite: None

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

### **Grade 11 Hairstyling and Aesthetics (Workplace Preparation - TXJ3E)**

Prerequisite: None

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

### **Grade 11 Hairstyling and Aesthetics Extension Course - TXJ3E2**

Co-requisite or prerequisite: TXJ3E

This course follows the same curriculum expectations as TXJ3E. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

### **Grade 12 Hairstyling and Aesthetics (Workplace Preparation – TXJ4E)**

Prerequisite: Hairstyling and Aesthetics, Grade 11 (Workplace, TXJ3E)

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

### **Grade 12 Hairstyling and Aesthetics Extension Course - TXJ4E2**

Co-requisite or prerequisite: TXJ4E

This course follows the same curriculum expectations as TXJ4E. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

## GREEN INDUSTRIES

### **Grade 11 Green Industries (Workplace Preparation - THJ3E)**

Prerequisite: None

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

### **Grade 12 Green Industries (Workplace Preparation - THJ4E)**

Prerequisite: Green Industries, Grade 11, Workplace Preparation (THJ3E)

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.

## HEALTH CARE

### **Grade 11 Health Care (University/College Preparation - TPJ3M)**

Prerequisite: None

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 healthcare field, analyze environmental and societal issues related to health care, and learn about professional practice standards and career opportunities in the field.

### **Grade 11 Health Care (College Preparation – TPJ3C)**

Prerequisite: None

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 health care terminology and the anatomical features and physiology of some major body systems. Students will develop an awareness of health and safety issues in the healthcare field, environmental and societal issues related to health care, professional practice standards, and career opportunities in the field.

## HOSPITALITY

### **Grade 9 Hospitality and Tourism Technology (Open – TFJ1O)**

Prerequisite: None

This exploratory course introduces students to concepts and skills related to hospitality and tourism, focusing on the areas of food handling, food preparation, the origins of foods, event planning, and local tourism. Students will develop an awareness of related environmental and societal issues and will begin to explore secondary and postsecondary pathways leading to careers in the field.

### **Grade 10 Hospitality and Tourism Technology (Open – TFJ2O)**

Prerequisite: None

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

### **Grade 11 Hospitality and Tourism (Workplace - TFJ3E)**

Prerequisite: None

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.



### **Grade 11 Hospitality and Tourism Extension Course - TFJ3E2**

Co-requisite or prerequisite: TFJ3E

This course follows the same curriculum expectations as TFJ3E. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

### **Grade 12 Hospitality and Tourism (Workplace - TFJ4E)**

Prerequisite: Grade 11, Hospitality and Tourism, (TFJ3E)

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.

### **Grade 12 Hospitality and Tourism Extension Course - TFJ4E2**

Co-requisite or prerequisite: TFJ4E

This course follows the same curriculum expectations as TFJ4E. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

## MANUFACTURING

### **Grade 9 Exploring Manufacturing Technology (Open - TMJ10)**

Prerequisite: None

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

### **Grade 10 Manufacturing Technology (Open - TMJ20)**

Prerequisite: None

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

### **Grade 11 Manufacturing Technology (Workplace - TMJ3E)**

Prerequisite: None

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.

### **Grade 11 Manufacturing Technology Extension Course - TMJ3E2**

Co-requisite or prerequisite: TMJ3E

This course follows the same curriculum expectations as TMJ3E. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

### **Grade 12 Manufacturing Technology (Workplace Preparation - TMJ4E)**

Prerequisite: Grade 11 Manufacturing Technology, (Workplace TMJ3E)

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.

### **Grade 12 Manufacturing Technology Extension Course - TMJ4E2**

Co-requisite or prerequisite: TMJ4E

This course follows the same curriculum expectations as TMJ4E. The additional instructional time allows for the practice and refinement of skills to the level required for entry into a subsequent program or the workplace.

### **Grade 12 Manufacturing Technology (College Preparation - TMJ4C)**

*Prerequisite:* Grade 11 Manufacturing Technology, (College TMJ3C)

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.

## TECHNOLOGY DESIGN

### **Grade 10 Technological Design (Open - TDJ2O)**

*Prerequisite:* None

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

### **Grade 11 Technological Design (University/College Preparation - TDJ3M)**

*Prerequisite:* None

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.

### **Grade 11 Technological Design and the Environment (Open - TDJ3O)**

*Prerequisite:* None

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

### **Grade 12 Technological Design (University/College Preparation - TDJ4M)**

*Prerequisite:* Grade 11 Technological Design, (University/College TDJ3M)

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, models, animations and presentation tools to present their designs. Students will enhance their problem solving and communication skills, and explore career opportunities and the postsecondary education and training requirements for them.

## TRANSPORTATION

### **Grade 10 Transportation Technology (Open - TTJ2O)**

*Prerequisite:* None

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

### **Grade 10 Transportation Technology, Small Engines (Open - TTJ2O1)**

*Prerequisite:* None

This course introduces students to the service and maintenance of small engines and 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, electrical/ battery service, and proper care. Students will develop an awareness of related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the transportation industry.

### **Grade 11 Transportation Technology, Auto Service (College Preparation - TTA3C1 and TTA3C2)**

Prerequisite: None

Recommended: Grade 10, Transportation Technology, (Open TTJ20)

Note: Must take both TTA3C1 and TTA3C2 (Code is TTA3CD in MyBlueprint)

This **2 credit** course package enables students to develop technical knowledge and skills as they study, test, service, and repair engines, electrical, suspension, brake, and steering systems on vehicles. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry. This is a two-credit course designed for Specialist High Skills Major students.

### **Grade 11 Transportation Technology: Vehicle Ownership (Open - TTJ30)**

Recommended: Grade 10, Transportation Technology, (Open TTJ20)

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

### **Grade 11 Transportation Technology, Small Engines (College Preparation - TTS3C)**

Prerequisite: None

Recommended: Grade 10, Transportation Technology, Small Engines, (Open TTJ201)

This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, and steering systems on small engines, 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.

### **Grade 12 Transportation Technology (Workplace Preparation - TTJ4E)**

Prerequisite: Grade 11, Transportation Technology, (Open TTJ3E)

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.