



# **WESTGATE COLLEGIATE AND VOCATIONAL INSTITUTE**



2025-2026  
**COURSE  
CALENDAR**



**ALWAYS ONLY**

**THE BEST**

**Semper Solum Optimum**

# Welcome Bienvenue Biindigen

## WESTGATE COLLEGIATE AND VOCATIONAL INSTITUTE

**School Colours**  
Orange and Black

**School Team**  
Tigers

**Student Population**  
1,100

**Founded**  
1960

**Principal**  
Mr. R. McDonnell

**Vice Principal**  
Mrs. J. Mikus  
Mrs. M. Smelow

**School Council Chair**  
Mrs. J. Ranta-Ojala

**Student Services Chair**  
Mr. R. Cicigoi

### Family of Schools

- Armstrong • Crestview • Elsie MacGill • Kakabeka Falls • Kingsway • McKellar Park
- Nor'wester View • Ogden Community • Sherbrooke • Valley Central
- Westmount • Whitefish Valley

### Grade 9 at Westgate CVI | 2025-26

Students with Parents/Guardians determine compulsory course type during Grade 9 Registration in February.

Mathematics - Academic (Pre-AP)  
Mathematics - De-streamed  
Mathematics - Locally Developed  
English - De-streamed (Pre-AP)  
English - De-streamed  
English - Locally Developed

MTW1WA  
MTW1W1  
MAT1L1  
ENL1WA  
ENL1W1  
ENG1L1

Science - Academic (Pre-AP)  
Science - De-streamed  
Science - Locally Developed  
French - Academic  
Geography - De-streamed  
FNMI Language: Ojibwe - Open

SNC1WA  
SNC1W1  
SNC1L1  
FSF1D1  
CGC1W1  
LNOA01

Students with Parents/Guardians will select three (3) electives. A fourth choice will be indicated on the Grade 9 Verification Form as a record for the school in the event that a student's timetable does not allow for the first three choices.

Building the Entrepreneurial Mindset	BEM101
Dance	ATC101
Drama	ADA101
Expressions of First Nations, Metis and Inuit Cultures	NAC101
General Learning Strategies in Numeracy	GLS101
Health and Physical Education	PPL101
Literacy Skills: Reading and Writing	ELS201
Music - Band	AMI101
Music - Guitar	AMG101
Technology and the Skilled Trades	TAS101
Visual Arts	AVI101



# WESTGATE

## COLLEGIATE AND VOCATIONAL INSTITUTE

### Academics

We offer innovative programs to suit a wide variety of students drawn from both the city and rural areas. Caring and committed staff provide students with opportunities to earn their compulsory and elective credits at the essential, open, de-streamed, and academic levels in courses like Art, Business, Canadian and World Studies, Computer Studies, English, FNMI Language, French, Guidance and Career Education, Health and Physical Education, Mathematics, Science, Social Science and Technology. For those seeking greater academic challenge we offer courses in English, Math, and Science at the Pre-Advanced Placement and Advanced Placement Levels. See Page 3 for more information.

### Academic and Cultural Support for First Nation, Metis and Inuit Students

Westgate is fortunate to have a Four Directions Program that includes Graduation Coaching, and a Learning Lodge with an Indigenous Achievement Tutor. All of these programs offer academic and social support combined with opportunities that enhance the students' cultural, mental, physical and emotional well-being.

### Special Education

Westgate is proud to be a school that values inclusion and celebrates individual strengths and differences. Westgate offers a school-based program combined with Pre-Workplace, Special Needs and Multi-Needs programs – the widest range of special education opportunities in the city. Contact our Special Education Manager for more information.

### Arts Education

We are proud of the comprehensive arts programming offered at Westgate: dance, drama, fashion, guitar, music, stage band, visual arts and vocal training. Major productions including musicals, art exhibits at the Thunder Bay Art Gallery, dance performances and music concerts all offer our students the opportunity to shine.

### Technological Education

The technological education program at Westgate, with state of the art equipment and facilities, equips our students to meet the challenges and the opportunities of the future. Beginning with Technology and the Skilled Trades, we design and create products with a wide variety of industry-standard tools, equipment and software. A pathway to further technology courses is clear with courses in Construction, Design, Manufacturing and Transportation starting in Grade 10. Building on prior skills and knowledge, students become technologically literate and are able to make solid decisions about their future.

### Specialist High Skills Major Programs

For our senior students (Grades 11 and 12), Westgate is proud to offer Specialist High Skills Major programming in seven distinct areas: Arts and Culture, Aviation and Aerospace, Business combined with an Indigenous Youth Entrepreneurship Program, Construction, Hospitality with a culinary focus, Manufacturing and Transportation Service. Specialist High Skills Major Programs allow students to focus on a career pathway that matches their interests while meeting the requirements of the Ontario Secondary School Diploma. Students in these programs receive specialized training and certifications as well as a host of other benefits. Speak to Student Services for more information about the seven amazing opportunities offered through Westgate in Specialist High Skills Major Programs.

### Athletics

From championship teams to intramural pick-up games at lunch, Westgate offers a full array of athletic opportunities. Our positive sportsmanship at Westgate means that many students participate and our teams bring home trophies! Check out football, basketball, curling, cheerleading, wrestling, track and field, volleyball and more by coming to try-outs!

### Students' Council

Westgate's SAC is one of the largest and the best in the city! Throughout the year, SAC plans exciting events for the student body including Spirit Weeks, Pep Rallies, Corn Roasts, Semi-Formal Dinner Dances and more. In addition, SAC actively supports local charities like the United Way and Christmas Cheer by hosting events to raise funds at school. All are welcome – join to make friends, develop your leadership skills and make a difference at Westgate!



Innovative, exciting and flexible opportunities are available that allow students to earn credits towards their diploma in many unique and varying environments. Whether online, in a career setting, post-secondary institution, or other educational facility, students participating in these programs work hands-on and build the skills and knowledge necessary to ensure their successful transition to their post-secondary career of choice. Many of these programs also provide free certifications, recognized training, or reach-ahead experiences to help students further focus their career pathway. All students can benefit from participation in these equal access programs. Students select courses online on Xello during February.



# AP ADVANCED PLACEMENT

Challenge Yourself!

## What is AP?

AP is an enriched academic program where students have the flexibility to take one or all of the AP courses offered at Westgate CVI (with recognized standardized testing during your senior year).

Advanced Placement is a program that offers students the opportunity to participate in a more challenging academic program whose ultimate goal is to give students the option to take standardized Advanced Placement exams in Grade 12. Depending on the results and the university, students may receive advanced standing or university credit in first year.

## The AP Examinations

Students in AP courses do not have to take the exams. The AP Examinations have no bearing on the students' marks in the course. They are an opportunity for students to measure themselves against the best students in those subjects worldwide and, as noted above, to potentially receive university credits while still in high school.

## What is Pre-AP

At Westgate, students can opt to take their Pre-AP 9-11 Mathematics, Science and English credits at the AP level (ENL1WA rather than ENL1W1, for example).

These courses, in addition to covering The Ontario Curriculum, will be enriched academic courses with the goal of exposing students to the vocabulary and style of AP examinations. It should be noted that students will be evaluated in exactly the same way as students in the regular academic stream; the expectations are not greater. The difference is that students will encounter more sophisticated content. These courses will naturally lead to Grade 12 AP courses, at the end of which the students will have the option of writing the AP Examinations, which occur in May each year.

While we encourage students interested in this avenue to take Pre-AP beginning in Grade 9, students may still opt for AP courses in Grades 11 and 12 without having taken Pre-AP provided they have demonstrated an appropriate aptitude for the particular subject.

## Why Take AP?

Advanced Placement courses customize learning tailored to your academic strengths. The program is an excellent preparation for post-secondary (university) education, and you will be studying with other, like-minded students. All teachers are AP trained and certified, and are specialists in their respective subjects.

<https://apstudent.collegeboard.org/home>

[www.lakeheadschoools.ca/westgate](http://www.lakeheadschoools.ca/westgate)

Call us today 577-4251

## AP English

- Engage in rich course material, classroom discussion, and unique assignments to help develop the knowledge and critical thinking skills needed for post secondary studies;
- Take part in the rigorous study of a variety of texts from the 1600's to the present, providing an opportunity for developing knowledge through inquiry, communication, and collaboration; and
- Learn to write essays using the style and form appropriate for the demands of university courses.

## AP Mathematics

- Earn potential university credit while in high school;
- Expose yourself to the rigour of university Calculus;
- Learn and graduate with like-minded, academically motivated students; and
- Develop the work ethic, problem solving and critical thinking skills necessary for success at the university level.

## AP Biology

- Earn potential university credit while in high school;
- Participate in more sophisticated and complex inquiry lab activities; and
- Develop and refine analytical and mathematical skills and their applications.

## Is AP Right for Me?

Are you:

- an independent and motivated learner with a strong work ethic?
- an avid reader and effective communicator?
- a strong critical and creative thinker who enjoys solving problems and analyzing how things work?
- curious about the world around you and eager to challenge yourself to expand your learning at Westgate?

*If you perform at a high level in Mathematics, Science, History, Geography and Language, like to read, are willing to problem solve, and seek challenges, Pre-Advanced Placement and Advanced Placement (AP) just might be for you.*



## IT'S MY TIME TO BE A Westgate Tiger

# SELECTION & PLANNING

## If you started Grade 9 in Fall 2024 and after

If you started Grade 9 in 2024 or in later years, you need the following to get your OSSD. Notice that you need 17 compulsory credits, including one credit in the STEM related course group.

### Compulsory Credits

You need the following 17 compulsory credits to get your OSSD:

- 4 credits in English (1 credit per grade)
- 3 credits in mathematics (Grade 9, Grade 10 and 1 credit in Grade 11 or 12)
- 2 credits in science
- 1 credit in technological education (Grade 9 or Grade 10)
- 1 credit in Canadian history (Grade 10)
- 1 credit in Canadian geography (Grade 9)
- 1 credit in the arts
- 1 credit in health and physical education
- 1 credit in French as a second language or Native language
- 0.5 credit in career studies
- 0.5 credit in civics and citizenship
- 1 credit from the STEM-related course group

The following apply to compulsory credit selections.

- You can use the Grade 11 English: Understanding Contemporary First Nations, Métis and Inuit Voices course to meet the Grade 11 English compulsory credit requirement.
- You can use the Grade 9 Expressions of First Nations, Métis, and Inuit Cultures course to meet the compulsory credit requirement in the arts.

### STEM-related course group

Of the 17 compulsory credits, you must complete 1 from the following group:

- business studies
- computer studies
- cooperative education
- mathematics (in addition to the 3 compulsory credits currently required)
- science (in addition to the 2 compulsory credits currently required)
- technological education (in addition to the 1 compulsory credit required)

### Optional credits

You must earn 13 optional credits by successfully completing courses from your school's program and course calendar.

Optional credits may include up to 4 credits earned through approved dual credit programs.

### Additional Requirements:

- 40 hours of community involvement activities
- Ontario Secondary School Literacy Requirement (OSSLT or OSSLC)
- Financial Literacy Requirement (starting for students who begin Grade 9 in 2026).
- 2 online credits (which make up any of the of the compulsory or optional credits). Students can opt out with parental permission. Contact your school guidance department to discuss opting out.

## If you started Grade 9 in or before Fall 2023

If you started Grade 9 in 2023 or earlier, you need the following to get your OSSD. Notice that you need 18 compulsory credits and follow the Group 1, 2 and 3 lists.

### Compulsory Credits

You need the following 18 compulsory credits to get your OSSD:

- 4 credits in English (1 credit per grade)
- 3 credits in mathematics (at least 1 credit in Grade 11 or 12)
- 3 credits for group 1, 2 and 3 courses (1 credit in each group)
- 2 credits in science
- 1 credit in Canadian history (Grade 10)
- 1 credit in Canadian geography (Grade 9)
- 1 credit in the arts
- 1 credit in health and physical education
- 1 credit in French as a second language or Native Language
- 0.5 credit in career studies
- 0.5 credit in civics and citizenship

The following also apply to compulsory credit selections.

- You can use the Grade 11 English: Understanding Contemporary First Nations, Métis and Inuit Voices course to meet the Grade 11 English compulsory credit requirement.
- You can use the Grade 9 Expressions of First Nations, Métis, and Inuit Cultures course to meet the compulsory credit requirement in the arts.

### Group 1, 2 and 3 compulsory credits

Of the 18 compulsory credits, you must complete 1 from each of the following groups:

Group 1: English (including the Ontario Secondary School Literacy Course) or French as a second language, Native languages, First Nations, Métis, and Inuit studies, classical studies and international languages, social sciences and the humanities, Canadian and world studies, guidance and career education, cooperative education, American Sign Language as a second language

Group 2: health and physical education, the arts, business studies, French as a second language, cooperative education, American Sign Language as a second language

Group 3: science (Grade 11 or 12), technological education, French as a second language, computer studies, cooperative education. American Sign Language as a second language

The following conditions apply to selections from the above three groups: A maximum of 2 credits in French as a second language may count as additional compulsory credits, 1 credit from Group 1, and 1 credit from either Group 2 or 3. A maximum of 2 credits in cooperative education may count as additional compulsory credits, selected from any of Groups 1, 2, or 3.

### Optional credits

You must earn 12 optional credits by successfully completing courses from your school's program and course calendar.

Optional credits may include up to 4 credits earned through approved dual credit programs.

### Additional Requirements:

- 40 hours of community involvement activities
- Ontario Secondary School Literacy Requirement (OSSLT or OSSLC)

## What Is An Individual Education Plan?

An Individual Education Plan is a written plan that describes the special education program and/or services required by a particular student. It may identify accommodations, modified learning expectations and/or alternative learning expectations.

## Ontario Secondary School Certificate (OSSC)

In order to earn an Ontario Secondary School Certificate (OSSC), a student must achieve 14 credits distributed as follows:

### Compulsory Credits

2 credits in English

1 credit in Canadian Geography or Canadian History

1 credit in Mathematics

1 credit in Science

1 credit in Health & Physical Education

1 credit in the Arts or Technological Education

### Elective Credits

7 credits selected by the student from available courses

## Certificate Of Accomplishment

Students who leave school before fulfilling the requirements for the Ontario Secondary School diploma or the Ontario Secondary School Certificate may be granted a Certificate of Accomplishment.

The Certificate of Accomplishment may be a useful means of recognizing achievement for students who plan to take certain vocational programs (i.e. March of Dimes) or other kinds of further training, or who plan to find employment after leaving school.

## Your Individual Pathways Plan (IPP)

All Ontario secondary students will create their own Individual Pathways Plan (IPP). This is the primary planning tool that you will use as you move through school to your initial post-secondary destination.

### Your Individual Pathways Plan (IPP) will help you find the answers.

Everything you learn about courses, careers and pathways will be stored in your IPP. You will be able to access all this valuable information as you begin planning your life after high school.

### A career is your path through life.

In high school, you will have to make decisions about education, learning, different jobs, work (paid and unpaid), family life, friendships, community involvement and leisure activities.

Career development requires you to understand who you are and what opportunities you have in both the world and the workplace, so that you can begin to make decisions about your future. Career development involves understanding your own strengths and interests, goal-setting, decision-making and awareness of opportunities.

Jobs in the future will belong to people with skills, attitudes and behaviours that include academic abilities, personal management skills and teamwork strategies.

You will need to have good work habits and the ability to make sound decisions, solve problems, plan effectively, work independently, communicate well, do research, evaluate yourself realistically, and explore new educational and career opportunities.

**Student Services Guidance Counsellors will be a valuable resource for searches, course selection, career exploration, support and so much more. Talk to your counsellor about your ideas, goals, and dreams.**

## Explore Options, Goals & Plans

Use this walkthrough to learn about Explore Options and Goals & Plans. These activities help students open their eyes to the many different futures available to them. Once they've been introduced to the wide range of careers, have delved into self-knowledge, and have defined a goal, Xello prompts them to come full circle and narrow the pathways required to reach those future goals.

## Explore Options

Whether you want to start your journey by exploring careers, schools, or majors, you can start from Explore Options. Let's start with Careers.

## Explore Careers

- Select *Explore Options* in the top menu.
- Select *Careers* and you'll see your top 20 best-matched careers. By default, careers are sorted by the strength of your match to the career: Excellent, Good, Fair, or Poor.
- Browse through the list and select *View More* to see another 20 careers. You can keep expanding the list.



TIP: Explore the dynamic filters by clicking More Filters. You can narrow your list based on factors like earnings, related clusters, and job outlook.

## Deep Dive on a Career

Xello includes hundreds of career profiles that are accessible and engaging. To view a career profile, select a career that interests you. Select *Find Out Why* to see how the answers you gave in your assessments contributed to your match score.

Select *Save* next to the heart icon to save a favourite career, indicate how you feel about it, and explore further with investigative prompts.

Make your way to the bottom of the career profile page, scrolling past the job description, earnings, and down to the education and training; you'll see a list of links under Related Programs. Choose one to take you to Explore Programs.



TIP: Saving your options will help you experience a curated Xello journey as activities are specially tuned to your interests and favourites. You can visit your saved options from any page by clicking the heart icon in the top menu bar.

## Explore Programs

Once on the Explore Programs page, the link you chose from the career profile will be applied as a filter to the program results. Apply other filters to further narrow results.

## Time to Explore!

Choose a program to bring up its profile. On each program you will see details such as admission requirements, costs, and similar programs, at this and other schools. From the right of the profile, select **Save** to record it to your favourites.



TIP: You can access Programs and Schools from the top of any page.

## Explore Schools

To explore more about the specific school, select the school name under the section titled *Offered By*. From here you can learn about cost, enrollment, programs, campus housing, similar schools, and even the local weather, and an interactive campus map. Select **Save** to record it to your favourites.

Xello works hard to prompt you to discover a path that parallels your skills and interests, but sometimes your best inspiration will be stumbled upon by surprise. So if you'd like to cut loose and browse all careers, schools, and programs, select the *Explore Options* link again and select the appropriate section to begin exploring, applying filters, and saving your favourites.

## Goals & Plans

Once you've explored your career, program, and school options, bring your knowledge full circle and build a plan to connect all the dots. From the navigation bar at the top of the page, select *Goals & Plans* and then *Create Plan*.

Choose one of the three starting points: career, school, or program; and give your plan a name. Select *Next* and use your saved options to choose a path in your future.

Once completed, you can personalize your plan by adding comments and media to your storyboard. Create multiple plans and compare them on the Goals & Plans page.

## Current Grade 9s

For Grade 10, you will have five compulsory courses plus three additional courses.

## Current Grade 10s

You will take an English and a Math course, plus six other additional courses. You should be considering your Groups 1, 2, and 3, as well as prerequisites you may be required to take in Grade 12 for Apprenticeship, College or University programs after high school.

## Current Grade 11s

You are choosing your one English and at least five other courses. You must ensure you will graduate with a minimum of 30 credits.

***If you have attempted the Ontario Secondary School Literacy Test at least once and have been unsuccessful, you should include OLC40 as a course choice.***

**Please note: If you received 50% in a course, you should talk to your subject teacher about the appropriate next step.**

**Students wishing to attend college or university are reminded that they must meet specific entrance requirements:**

University – at least six (6) Grade 12 “U” or “M” courses and in many cases a designated overall average (70% for Lakehead University).

Students must also meet course prerequisites for certain post secondary programs.

For a comprehensive list of Universities and programs, as well as prerequisites and admissions requirements, visit: [www.ontariouniversitiesinfo.ca](http://www.ontariouniversitiesinfo.ca)

College – at least Grade 12 College English. Specific senior mathematics courses are also required for technology programs.

To explore college programs and admissions requirements, visit: [www.ontariocolleges.ca](http://www.ontariocolleges.ca)

For more information on trades, visit: [www.skilledtrades.ca](http://www.skilledtrades.ca)

General information: [www.osca.ca](http://www.osca.ca)



## Edsby

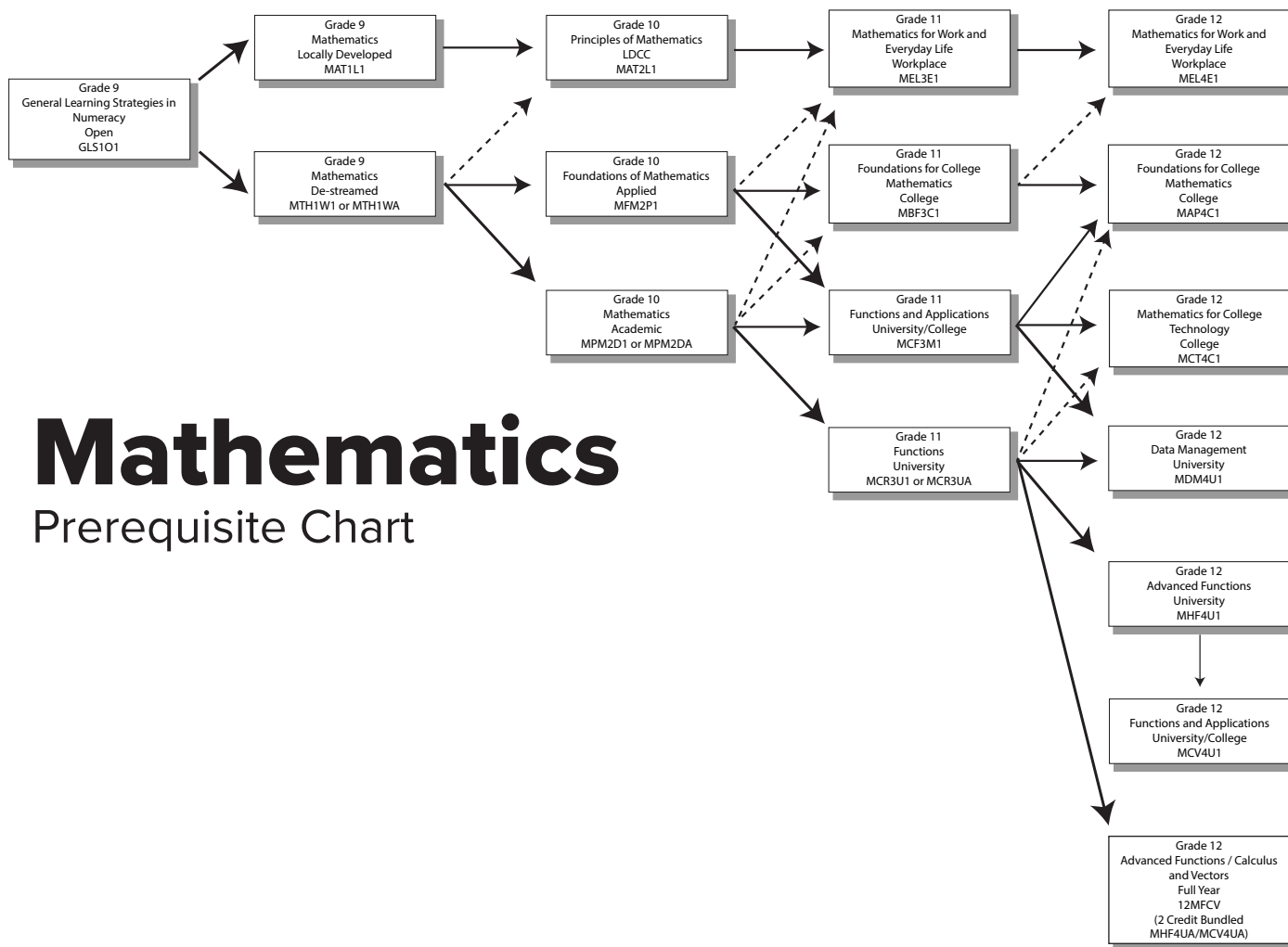
Edsby is the main online learning management system for Hammarkjold HS, Westgate CVI, and Superior CVI. Edsby helps connect students, parents/guardians, and teachers. **Students** can log in to Edsby to stay up to date on class work, grades, and learning resources. **Families** can connect to Edsby so that they can keep up to date on lessons, assessments, school clubs, extra-curricular activities, and school news.

**As soon as they start Grade 9**, students can connect to Edsby using their school login.

Here's how:

1. **Login:** <https://lakehead.edsby.com> and use your school login. You can also download the app and enter the code - lakehead.
2. **Username:** Use the first 8 characters of your first name, followed by the first 8 characters of your last name, and then add two numbers for the month of birth and two numbers for the day of birth (e.g., johndoe1225).
3. **Password:** Combine the first initials of your first and last name, add a dash, and include the last six numbers of your student ID (e.g., jd-123456).



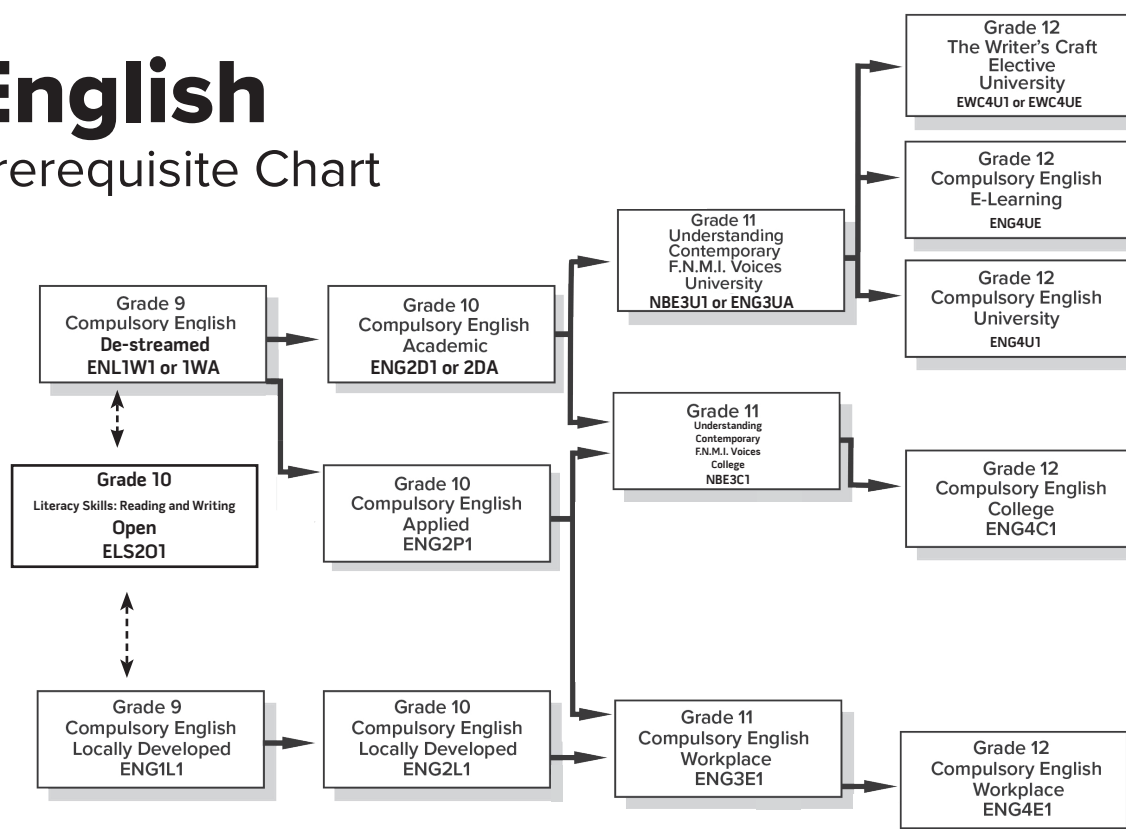


# Mathematics

## Prerequisite Chart

# English

## Prerequisite Chart



# WCVI COURSES

## The Arts

Course Descriptions: p.15-16

### Dance

	Course Code	Prerequisite
Dance - Open	ATC201	
Dance - U/C	ATC3M1	ATC101 or ATC201
Dance - U/C	ATC4M1	ATC3M1

### Drama

Drama - Open	ADA201	
Drama - U/C	ADA3M1	ADA101 or ADA201
Drama - U/C	ADA4M1	ADA3M1

### Music

Music - Open	Instrumental	AMI201	
Music - Open	Guitar	AMG201	
Music - U/C	Instrumental	AMI3M1	AMI101 or AMI201 or AMI10K
Music - U/C	Repertoire (Rock Band)	AMR3M1	AMI101 or AMI201 or AMI10K
Music - Open	Guitar	AMG301	AMG201 or AMG101
Music - U/C	Instrumental	AMI4M1	AMI3M1
Music - U/C	Guitar	AMG4M1	AMG301
Music - U/C	Repertoire (Rock Band)	AMR4M1	AMR3M1 or AMI3M1 or AMG301

### Visual Arts

Visual Arts - Open	AVI201	
Visual Arts - U/C	AVI3M1	AVI101 or AVI201
Visual Arts - Open	AVI301	AVI101 or AVI201
Visual Arts - U/C	AVI4M1	AVI301 or AVI3M1
Visual Arts - Workplace	AVI4E1	AVI301 or AVI3M1

## Business Studies

Course Descriptions: p.16-17

### Business

Launching and Leading a Business - Open	BEP201	
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### Accounting

Financial Accounting Fundamentals - U/C	BAF3M1	
Financial Accounting Fundamentals - U/C - eLearning	BAF3ME	
Financial Accounting Principles - U/C	BAT4M1	BAF3M1

### International Business

International Business Fundamentals - U/C	BBB4M1	
International Business Fundamentals - U/C eLearning	BBB4ME	See p.16

### Marketing

Marketing: Goods, Services, and Events - College	BMI3C1	
Marketing: Goods, Services, and Events - College eLearning	BMI3CE	See p.16
Marketing: Retail and Service - Workplace	BMX3E1	

6th Character Designations  
Required

5th Character Course Pathways

A=Advanced Placement C=Cooperative Education D=Dual Credit E=eLearning F=French Immersion R=No Previous Experience

X=Females Y=Males 1=1 Credit 2=2 Credit 5= ½ Credit

Academic (D) Applied (P) University (U) College (C) Workplace (E) Open(O)

Abbreviations LDCC=Locally Developed Compulsory Course (L) U/C=University/College (M)

<b>Sports and Entertainment Marketing - University</b>	<b>IDC4U1</b>	<b>See p.17</b>
<b>Business Leadership</b>		
<b>Business Leadership Management - U/C eLearning WEST</b>	<b>BOH4ME</b>	<b>See p.17</b>
<b>Yearbook</b>		
<b>Designing the School Yearbook: First Yearbook Experience - Open</b>	<b>IDC301</b>	<b>See p.17</b>
<b>Designing the School Yearbook: Second Yearbook Experience - Open</b>	<b>IDC401</b>	<b>See p.17</b>

## Canadian and World Studies

Course Descriptions: p.17-18

Course Code

Prerequisite

### Civics

<b>Civics and Citizenship - Open</b>	<b>0.5 Credit</b>	<b>CHV205</b>
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### Geography

<b>Travel and Tourism: A Geographical Perspective - Open</b>	<b>CGG301</b>	<b>CGC1W1 or CGC1D1 or CGC1P1</b>
<b>Travel and Tourism: A Geographical Perspective - Open eLearning</b>	<b>CGG30E</b>	<b>See p.17</b>
<b>World Issues - A Geographical Analysis - University</b>	<b>CGW4U1</b>	<b>See p.17</b>
<b>The Environment and Resource Management - U/C - eLearning</b>	<b>CGR4ME</b>	<b>See p.17</b>

### History

<b>First Nations, Métis, and Inuit Peoples of Canada - Open</b>	<b>NAC201^</b>	<b>See p.17</b>
<b>Canadian History Since World War 1 - Academic</b>	<b>CHC2D1</b>	
<b>Canadian History Since World War 1 - Applied</b>	<b>CHC2P1</b>	
<b>Canadian History Since World War 1 - LDCC</b>	<b>CHC2L1</b>	
<b>World History to the End of the 15th Century - U/C</b>	<b>CHW3M1</b>	<b>CHC2P1 or CHC2D1 or NAC201</b>
<b>World History Since the 15th Century - University</b>	<b>CHY4U1</b>	<b>See p.18</b>
<b>World History Since the 15th Century - College</b>	<b>CHY4C1</b>	<b>See p.18</b>

<sup>^</sup> NAC201 may be taken as the Grade 10 compulsory History credit. See Student Services.

### Law

<b>Understanding Canadian Law - U/C</b>	<b>CLU3M1</b>	<b>CHC2P1 or CHC2D1 or NAC201</b>
<b>Understanding Canadian Law - Workplace</b>	<b>CLU3E1</b>	<b>CHC2L1 or CHC2P1 or NAC201</b>
<b>Canadian and International Law - University</b>	<b>CLN4U1</b>	<b>See p.18</b>
<b>Canadian and International Law - University elearning</b>	<b>CLN4UE</b>	<b>See p.18</b>
<b>Legal Studies - College</b>	<b>CLN4C1</b>	<b>CHV205</b>

## Computer Studies

Course Descriptions: p.18-19

Course Code

Prerequisite

### Computer Studies

<b>Digital Technology and Innovations in the Changing World - Open (Game Programming, AI and Cyber Security)</b>	<b>ICD201</b>	
<b>Introduction to Computer Science (Game Objects and Algorithms) - University</b>	<b>ICS3U1</b>	
<b>Introduction to Computer Programming - College (Game Objects and Algorithms)</b>	<b>ICS3C1</b>	
<b>Computer Science (Data, Apps and 3D) - University</b>	<b>ICS4U1</b>	<b>ICS3U1</b>
<b>Computer Programming (Data and Apps) - College</b>	<b>ICS4C1</b>	<b>ICS3C1 or ICS3U1</b>

## English

Course Descriptions: p.19-20

Course Code

Prerequisite

### English

<b>Literacy Skills: Reading and Writing</b>	<b>ELS201</b>	
<b>Compulsory English - Academic</b>	<b>ENG2D1</b>	<b>ENL1W1/A or ENG1D1/A</b>

<b>Compulsory English - Academic (Pre-Advanced Placement)</b>	<b>ENG2DA</b>	<b>ENL1W1/A or ENG1D1/A</b>
<b>Compulsory English - Applied</b>	<b>ENG2P1</b>	<b>ENL1W1 or ENG1D1</b>
<b>Compulsory English - LDCC</b>	<b>ENG2L1</b>	<b>ENG1L1 or ENL1W1 or ENG1D1</b>
<b>Compulsory English: Understanding Contemporary First Nations, Métis, and Inuit Voices - University</b>	<b>NBE3U1</b>	<b>ENG2D1 or ENG2DA</b>
<b>Compulsory English - University (Pre-Advanced Placement)</b>	<b>ENG3UA</b>	<b>ENG2D1 or ENG2DA</b>
<b>Compulsory English - Understanding Contemporary First Nations, Métis, and Inuit Voices - College</b>	<b>NBE3C1</b>	<b>ENG2P1 or ENG2D1</b>
<b>Compulsory English - Workplace</b>	<b>ENG3E1</b>	<b>ENG2L1 or ENG2P1</b>
<b>Compulsory English - University</b>	<b>ENG4U1</b>	<b>ENG3UA or NBE3U1 or ENG3U1</b>
<b>Compulsory English - University (Advanced Placement)</b>	<b>ENG4UA</b>	<b>ENG3UA or NBE3U1 or ENG3U1</b>
<b>Compulsory English - University - eLearning (see p. 20)</b>	<b>ENG4UE</b>	<b>ENG3UA or NBE3U1 or ENG3U1</b>
<b>Compulsory English - College</b>	<b>ENG4C1</b>	<b>ENG3C1 or NBE3C1 or NBE3U1</b>
<b>Compulsory English - Workplace</b>	<b>ENG4E1</b>	<b>ENG3E1 or NBE3E1 or NBE3C1</b>
<b>The Writer's Craft - University - eLearning WEST (see p.20)</b>	<b>EWC4UE</b>	<b>ENG3UA or NBE3U1</b>
<b>Ontario Secondary School Literacy Course - Open</b>	<b>OLC401</b>	<b>See p.20</b>

## First Nations, Métis, and Inuit Languages and Studies

Course Descriptions: p.20-21

Course Code

Prerequisite

### First Nations, Métis, and Inuit Languages and Studies

<b>FNMI Languages: Ojibwe, Level 1 - Open</b>	<b>LNOA01</b>	
<b>FNMI Languages: Ojibwe, Level 2 - Open</b>	<b>LNOB01</b>	<b>LNOA01 See p.20</b>
<b>First Nations, Métis, and Inuit in Canada - Open</b>	<b>NAC201</b>	
<b>World Views and Aspirations of First Nations, Métis, and Inuit Communities in Canada- College</b>	<b>NBV3C1</b>	<b>NAC201 or CHC2P1 or CHC2D1</b>
<b>Contemporary Indigenous Issues and Perspectives in a Global Context - U/C</b>	<b>NDW4M1</b>	<b>See p.20</b>

## First Nations, Métis, and Inuit Business

Course Descriptions: p.20-21

The Indigenous Youth Entrepreneurship Program (IYEP) is funded, and dependent on funding, by the Martin Family Initiative.

<b>Introduction to Entrepreneurship - College</b>	<b>BDI3CZ</b>	<b>See p.20-21</b>
<b>E-Commerce - College</b>	<b>BDV4CZ</b>	<b>See p.20-21</b>

## French as a Second Language

Course Descriptions: p.21

Course Code

Prerequisite

<b>Core French - Academic</b>	<b>FSF2D1</b>	<b>FSF1D1</b>
<b>Core French - University</b>	<b>FSF3U1</b>	<b>FSF2D1</b>
<b>Core French - University</b>	<b>FSF4U1</b>	<b>FSF3D1</b>

## American Sign Language (ASL)

Course Description: p.21

**ASL as a Second Language, Level 1 - Open**

**LASB01**

## Guidance and Career Education

Course Descriptions: p.21

Course Code

Prerequisite

<b>Career Studies - Open</b>	<b>0.5 Credit</b>	<b>GLC205</b>
<b>Creating Opportunities Through</b>	<b>2 Credits</b>	<b>DCO30C</b>
<b>Cooperative Education: First Cooperative Education Experience - Open</b>		
<b>Cooperative Education: Second Cooperative Education Experience - Open</b>	<b>2 Credits</b>	<b>GLN40C</b>



<b>Creating Opportunities Through Cooperative Education: First Cooperative Education Experience Focused Apprenticeship Skills Training (OYAP-FAST) - Open</b>	2 Credits	COP3F2	See p.29 and Student Services
<b>Creating Opportunities Through Cooperative Education: First Cooperative Education Experience Focused Apprenticeship Skills Training (OYAP-FAST) - Open</b>	4 Credits	COP3F4	See p.29 and Student Services
<b>Creating Opportunities Through Cooperative Education: Second Cooperative Education Experience Focused Apprenticeship Skills Training (OYAP-FAST) - Open</b>	2 Credits	COP4F2	See p.29 and Student Services
<b>Creating Opportunities Through Cooperative Education: Second Cooperative Education Experience Focused Apprenticeship Skills Training (OYAP-FAST) - Open</b>	4 Credits	COP4F4	See p.29 and Student Services

## Health and Physical Education

Course Descriptions: p.21-22	Course Code	Prerequisite
<b>Healthy Active Living Education - Open</b>	PPL201	
<b>Healthy Active Living Education (Female) - Open</b>	PPL20X	
<b>Introduction to Personal Fitness - Open</b>	PAF201	
<b>Health for Life - College</b> eLearning <b>WEST</b>	PPZ3CE	
<b>Healthy Active Living Education - Open</b>	PPL301	
<b>Healthy Active Living Education - Open</b> eLearning	PPL30E	
<b>Personal Fitness - Open</b>	PAF301	
<b>Healthy Active Living Education - Open</b>	PPL401	
<b>Personal Fitness - Open</b>	PAF401	
<b>Introduction to Kinesiology - University</b>	PSK4U1	See p.22
<b>Introduction to Kinesiology - University</b> eLearning	PSK4UE	See p.22

## Mathematics

Course Descriptions: p.22-23	Course Code	Prerequisite
<b>Principles of Mathematics - Academic</b>	MPM2D1	MTH1W1/1WA
<b>Principles of Mathematics - Academic (Pre-AP)</b>	MPM2DA	MTH1W1/1WA
<b>Foundations of Mathematics - Applied</b>	MFM2P1	MTH1W1/1WA
<b>Mathematics - LDCC</b>	MAT2L1	MAT1L1 or MTH1W1/1WA
<b>Functions - University</b>	MCR3U1	MPM2D1 or MPM2DA
<b>Functions - University (Pre-AP)</b>	MCR3UA	MPM2D1 or MPM2DA
<b>Functions and Applications - U/C</b>	MCF3M1	MFM2P1 or MPM2D1 or MPM2DA
<b>Functions for College Mathematics - College</b>	MBF3C1	MFM2P1 or MPM2D1 or MPM2DA
<b>Math for Work and Everyday Life - Workplace</b>	MEL3E1	MAT2L1 or MFM2P1 or MPM2D1
<b>Advanced Functions - University</b>	MHF4U1	MCR3U1/A or MCT4C1
<b>Calculus and Vectors - University</b>	MCV4U1	MHF4U1 (or concurrently)
<i>Concurrent 2-credit offering for AP Mathematics Students - Full Year</i>		
<b>Advanced Functions - University</b>	12MFCV	MCR3U1 or MCR3UA
<b>Calculus and Vectors - University (AP)</b>		
<b>Calculus and Vectors - University - eLearning WEST</b>	MCV4UE	MHF4U1 (or concurrently)

<b>Data Management</b> - University	MDM4U1	MCR3U1 or MCF3M1 or MCR3UA
<b>Foundations for College Mathematics</b> - College	MAP4C1	MBF3C1 or MCF3M1 or MCR3U1/A
<b>Mathematics for College Technology</b> - College	MCT4C1	MCF3M1 or MCR3U1/A
<b>Math for Everyday Life</b> - Workplace	MEL4E1	MEL3E1

## Science

Course Descriptions: p.23-25	Course Code	Prerequisite
<b>Science</b> - Academic	SNC2D1	SNC1W1 or SNC1WA
<b>Science</b> - Academic (Pre-AP)	SNC2DA	SNC1W1 or SNC1WA
<b>Science</b> - Applied	SNC2P1	SNC1W1 or SNC1WA
<b>Biology</b> - University	SBI3U1	SNC2D1 or SNC2DA
<b>Biology</b> - University (Pre-AP)	SBI3UA	SNC2D1 or SNC2DA
<b>Biology</b> - College	SBI3C1	SNC2P1, 2D1 or 2DA
<b>Biology</b> - University	SBI4U1	SBI3U1 or SBI3UA
<b>Biology</b> - University (AP)	SBI4UA	SBI3U1 or SBI3UA
<b>Chemistry</b> - University	SCH3U1	SNC2D1 or SNC2DA
<b>Chemistry</b> - University - eLearning <b>WEST</b>	SCH3UE	SNC2D1 or SNC2DA
<b>Chemistry</b> - University	SCH4U1	SCH3U1
<b>Chemistry</b> - University - eLearning <b>WEST</b>	SCH4UE	SCH3U1
<b>Chemistry</b> - College	SCH4C1	SNC2P1, 2D1, or 2DA
<b>Chemistry</b> - College - eLearning	SCH4CE	SNC2P1, 2D1, or 2DA
<b>Physics</b> - University	SPH3U1	SNC2D1 or 2DA
<b>Physics</b> - University	SPH4U1	SPH3U1
<b>Physics</b> - University - eLearning <b>WEST</b>	SPH4UE	SPH3U1
<b>Physics</b> - College	SPH4C1	SNC2P1, 2D1, or 2DA
<b>Physics</b> - College - eLearning <b>WEST</b>	SPH4CE	SNC2P1, 2D1, or 2DA
<b>Environmental Science</b> - U/C	SVN3M1	SNC2P1, 2D1, or 2DA
<b>Environmental Science</b> - Workplace	SVN3E1	See p.25

## Social Sciences and Humanities

Course Descriptions: p.25-26	Course Code	Prerequisite
<b>Family Studies</b>		
<b>Food and Nutrition</b> - Open	HFN2O1	
<b>Food and Culture</b> - University/College	HFC3M1	
<b>Understanding Fashion</b> - College	HNC3C1	
<b>Raising Healthy Children</b> - Open	HPC3O1	
<b>Raising Healthy Children</b> - Open eLearning	HPC3OE	See p.25
<b>Nutrition and Health</b> - University	HFA4U1	See p.25
<b>Nutrition and Health</b> - University eLearning	HFA4UE	See p.25
<b>Human Development Throughout the Lifespan</b> - U/C	HHG4M1	See p.25
<b>Human Development Throughout the Lifespan</b> - U/C - eLearning	HHG4ME	See p.25
<b>Personal Life Management</b> - Open	HIP4O1	
<b>Families in Canada</b> - University - eLearning	HHS4UE	See p.25
<b>General Social Science</b>		
<b>Intro to Anthropology, Psychology, and Sociology</b> - University	HSP3U1	ENG2D1 or CHC2D1

Students are reminded that it may be difficult or impossible to change a course once school starts in September.

Course selections made in February for the following year are the basis upon which classes are structured and staff is assigned. After staffing and the school's master timetable are established, subsequent changes in a student's program are possible but very much restricted, and are considered if timetable and class size permit.

Where enrolment is insufficient, a course may be canceled.

<b>Challenge and Change in Society - University</b>	<b>HSB4U1</b>	<b>See p.26</b>
<b>Challenge and Change in Society - University - eLearning WEST</b>	<b>HSB4UE</b>	<b>See p.26</b>

## Technological Education

Course Descriptions: p.26-28

Course Code

Prerequisite

### Construction Technology

<b>Construction Technology - Open</b>	<b>TCJ2O1</b>	
<b>Construction Engineering Technology - College</b>	<b>TCJ3C1</b>	
<b>SHSM Construction Engineering Technology - College (2 Credits)</b>	<b>TCJ3C2</b>	
<b>Construction Technology - Workplace</b>	<b>TCJ3E1</b>	
<b>SHSM Construction Technology - Workplace (2 Credits)</b>	<b>TCJ3E2</b>	
<b>Custom Woodworking - Workplace</b>	<b>TWJ3E1</b>	
<b>Construction Engineering Technology - College</b>	<b>TCJ4C1</b>	<b>TCJ3C1</b>
<b>SHSM Construction Engineering Technology - College (2 Credits)</b>	<b>TCJ4C2</b>	<b>TCJ3C2</b>
<b>Construction Technology - Workplace</b>	<b>TCJ4E1</b>	<b>TCJ3E1 or TCJ3C1</b>
<b>SHSM Construction Technology - Workplace (2 Credits)</b>	<b>TCJ4E2</b>	<b>TCJ3E2 or TCJ3C2</b>
<b>Custom Woodworking - Workplace</b>	<b>TWJ4E1</b>	<b>TWJ3E1</b>

### Hospitality and Tourism

<b>Hospitality and Tourism (Culinary Focus) - College/Workplace (2 Credits)</b>	<b>TFJ3C2/TFJ3E2</b>	
<b>Hospitality and Tourism (Culinary Focus) - College/Workplace (1 Credits)</b>	<b>TFJ3C1/TFJ3E1</b>	
<b>Hospitality and Tourism (Culinary Focus) - College/Workplace (2 Credits)</b>	<b>TFJ4C2/TFJ4E2</b>	<b>TFJ3C2 or TFJ3E2</b>
<b>Hospitality and Tourism (Culinary Focus) - College/Workplace (1 Credits)</b>	<b>TFJ4C1/TFJ4E1</b>	<b>TFJ3C1 or TFJ3E1 or TFJ3C/E2</b>

### Manufacturing Technology

<b>Manufacturing Technology - Open</b>	<b>TMJ2O1</b>	
<b>SHSM Manufacturing Technology - College (2 Credits)</b>	<b>TMJ3C2</b>	
<b>Manufacturing Technology - Workplace</b>	<b>TMW3E1</b>	
<b>Manufacturing Technology (Female) - College</b>	<b>TMJ3CX</b>	
<b>SHSM Manufacturing Technology - Workplace (2 Credits)</b>	<b>TMJ3E2</b>	
<b>SHSM Manufacturing Technology - College (2 Credits)</b>	<b>TMJ4C2</b>	<b>TMJ3C2</b>
<b>SHSM Manufacturing Technology - Workplace (2 Credits)</b>	<b>TMJ4E2</b>	<b>TMJ3C2 or TMJ3E2</b>
<b>Manufacturing Technology - Workplace</b>	<b>TMW4E1</b>	<b>TMW3E1 or TMJ3C/E2 or TMJ3CX</b>

*Students may earn one 'M' credit and one 'C' credit by registering in TMJ4C2. Note: Students may opt for Manufacturing and Transportation 2 credit courses and not join the SHSM, with permission of the Technology Department chair. Preference will be given to SHSM students.*

### Technological Design

<b>Technological Design - Open</b>	<b>TDJ2O1</b>	
<b>Technological Design and the Environment - Open</b>	<b>TDJ3O1</b>	
<b>Technological Design: Architectural Design - U/C</b>	<b>TDA3M1</b>	
<b>Technological Design: Architectural Design - U/C</b>	<b>TDA4M1</b>	<b>TDA3M1</b>

### Transportation Technology

<b>Transportation Technology - Open</b>	<b>TTJ2O1</b>	
<b>Transportation Technology: Vehicle Ownership - Open</b>	<b>TTJ3O1</b>	
<b>SHSM Transportation Technology: Auto Service - College (2 Credits)</b>	<b>TTA3C2</b>	
<b>SHSM Transportation Technology: Aviation - College (2 Credits)</b>	<b>TTL3C2</b>	
<b>SHSM Transportation Technology: Auto Service - College (2 Credits)</b>	<b>TTA4C2</b>	<b>TTA3C2</b>
<b>SHSM Transportation Technology: Aviation - College (2 Credits)</b>	<b>TTL4C2</b>	<b>TTL3C2</b>
<b>Transportation Technology: Vehicle Maintenance - Workplace</b>	<b>TTJ4E1</b>	

# SENIOR SPECIALIST FOCUS - GRADES 11 & 12

Information and application procedures are available at Student Services.

## Cooperative Education System Programs

Army Reserve	Sem 2	2 Credit	COP4XA	See Page 29
Naval Reserve	Summer	2 Credit	COP4XN	See Page 29
Aviation Technology   Westgate	TBD	4 Credit	COP4XV	See Page 29

**Ontario Youth Apprenticeship Program (OYAP)** - Application required when cooperative education placement specific to apprenticeship.

## Dual Credit Opportunities (School-College-Work Initiative) See Page 29-30 for more information

Designed for Senior Students who will be headed for college. Dual credit opportunities are different for each secondary school. College Now! Courses are offered on specific afternoons.

## Specialist High Skills Major



Arts and Culture	Westgate	8 Credit Bundle	SHMART	See Page 32
Aviation and Aerospace	Westgate	9 Credit Bundle	SHMAVA	See Page 32
Business	Westgate	9 Credit Bundle	SHMBUS	See Page 32
Construction	Westgate	9 Credit Bundle	SHMCON	See Page 32
Hospitality & Tourism	Westgate	8 Credit Bundle	SHMHTO	See Page 32
Manufacturing	Westgate	9 Credit Bundle	SHMMAN	See Page 32
Transportation Services	Westgate	9 Credit Bundle	SHMTTA	See Page 32

## eLearning at LPS - 2025-2026

Students may earn Ontario high school credits online through the Lakehead District School Board eLearning Program. Students taking an e-learning course will receive their instruction, assignments and tests online at the eLearning site [www.lakeheadschoools.ca/elearning/](http://www.lakeheadschoools.ca/elearning/). Participating students will be given face-to-face initial training on how to use the site and meet their teacher at the start of the semester. These courses meet all curriculum expectations and are taught by fully qualified teachers in one of our three high schools.

- Enjoy the flexibility of an eLearning online course
- Computer access available
- Dedicated eLearning teacher contact, support and assistance, including a help desk.
- Qualify by enrolling in at least two per semester – other day school courses.

**Please check with Student Services to confirm the semester when courses will be offered.**

Business Leadership Management - U/C	BOH4ME	English - University	ENG4UE
Challenge and Change - University	HSB4UE	Canadian & International Law - University	CLN4UE
The Writer's Craft - University	EW4UE	Introductory Kinesiology - University	PSK4UE
Calculus and Vectors - University	MCV4UE	Chemistry - College	SCH4CE
Physics - College	SPH4CE	Marketing: Goods, Services, Events - College	BMI3CE
Chemistry - University	SCH3UE	Raising Healthy Children - Open	HPC3OE
Chemistry - University	SCH4UE	International Business Fundamentals - U/C	BBB4ME
Financial Accounting Fundamentals - U/C	BAF3ME	Health for Life - College	PPZ3CE
Physics - University	SPH4UE	Healthy Active Living - Open	PPL3OE
Nutrition & Health - University	HFA4UE	Families In Canada - University	HHS4UE
Human Development Throughout the Lifespan - U/C	HHG4ME		



# COURSE DESCRIPTIONS

## The Arts

### Dance

**Dance**  
**Grade 10**

**ATC201**  
**Open**

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

**Prerequisite: None**

**Dance**  
**Grade 11**

**ATC3M1**  
**University/College**

This course emphasizes the development of students' artistry, improvisational and compositional skills, and technical proficiency in dance genres from around the world. Students will apply dance elements, techniques, and tools in a variety of ways, including performance situations; describe and model responsible practices related to the dance environment; and reflect on how the study of dance affects personal and artistic development.

**Prerequisite: ATC101 or ATC201**

**Dance**  
**Grade 12**

**ATC4M1**  
**University/College**

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

**Prerequisite: ATC3M1**

### Drama

**Drama**  
**Grade 10**

**ADA201**  
**Open**

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

**Prerequisite: None**

**Drama**  
**Grade 11**

**ADA3M1**  
**University/College**

This course requires students to create and perform in dramatic presentations. Students will analyze, interpret, and perform dramatic works from various cultures and time periods. Students will research various acting styles and conventions that could be used in their presentations, and analyze the functions of playwrights, directors, actors, designers, technicians, and audiences.

**Prerequisite: ADA101 or ADA201**

**Drama**  
**Grade 12**

**ADA4M1**  
**University/College**

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

**Prerequisite: ADA3M1**

## Music

**Music - Instrumental**  
**Grade 10**

**AMI201**  
**Open**

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

**Prerequisite: None**

*The course description above applies to the following with the addition of a greater concentration in the area noted.*

**Music - Guitar**  
**Grade 10**

**AMG201**  
**Open**

This is a first year Guitar course.

**Music - Instrumental**  
**Grade 11**

**AMI3M1**  
**University/College**

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

**Prerequisite: AMI101 or AMI201 or AMI10K**

*The course description above applies to the following with the addition of a greater concentration in the area noted.*

**Music Repertoire - Rock Band**  
**Grade 11**

**AMR3M1**  
**University/College**

This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music, specifically in a Rock Band small ensemble (electric guitar, electric bass, drums, keyboard, vocals). Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyze how to apply skills developed in music to their life and careers.

**Prerequisite: AMI101 or AMI201 or AMI10K or Special Permission From The Instructor**

**Music - Guitar**  
**Grade 11**

**AMG301**  
**Open**

**Prerequisite: AMG201 or AMG101 or AMI10K**

**Music - Instrumental**  
**Grade 12**

**AMI4M1**  
**University/College**

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

**Prerequisite: AMI3M1 or AMI301**

*The course description above applies to the following with the addition of a greater concentration in the area noted.*

**Music - Guitar**  
**Grade 12**

**AMG4M1**  
**University/College**

**Prerequisite: AMG301**

**Music - Repertoire - Rock Band**  
**Grade 12**

This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music, specifically in a Rock Band small ensemble (electric guitar, electric bass, drums, keyboard, vocals). Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyze how to apply skills developed in music to their life and careers.

**Prerequisite:** AMR3M1 or AMI3M1 or AMG3O1 or Special Permission From The Instructor

**AMR4M1**  
**University/College**

**Visual Arts**

**Visual Arts**  
**Grade 10**

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

**Prerequisite:** None

**AVI2O1**  
**Open**

**Visual Arts**  
**Grade 11**

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

**Prerequisite:** AVI1O1 or AVI2O1

**AVI3M1**  
**University/College**

**Visual Arts**  
**Grade 11**

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

**Prerequisite:** AVI1O1 or AVI2O1

**AVI3O1**  
**Open**

**Visual Arts**  
**Grade 12**

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

**Prerequisite:** AVI3M1 or AVI3O1

**AVI4M1**  
**University/College**

**Visual Arts**  
**Grade 12**

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

**Prerequisite:** AVI3O1

**AVI4E1**  
**Workplace**

**Business Studies**  
**Business**

**Launching and Leading a Business**  
**Grade 10**

This course introduces students to the world of business and what is required to be

**BEP2O1**  
**Open**

successful, ethical, and responsible in today's economy. Students will develop the knowledge and skills needed to be an entrepreneur who knows how to respond to local and global market opportunities. Throughout the course, students will explore and understand the responsibility of managing different functions of a business. This includes accounting, marketing, information and communication technology, financial management, human resources, and production.

**Prerequisite:** None

**Accounting**

**Financial Accounting Fundamentals**  
**Grade 11**

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

**Prerequisite:** None

**BAF3M1**  
**University/College**

**Financial Accounting Fundamentals**  
**Grade 11 - eLearning**

**Prerequisite:** None

**BAF3ME**  
**University/College**

**Financial Accounting Principles**  
**Grade 12**

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.

**Prerequisite:** BAF3M1

**BAT4M1**  
**University/College**

**International Business**

**International Business Fundamentals**  
**Grade 12**

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

**Prerequisite:** None

**BBB4M1**  
**University/College**

**International Business Fundamentals**  
**Grade 12 - eLearning**

**Prerequisite:** None

**BBB4ME**  
**University/College**

**Marketing**

**Marketing: Goods, Services, Events**  
**Grade 11**

This course introduces the fundamental concepts of 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.

**Prerequisite:** None

**BM13C1**  
**College**

**Marketing: Goods, Services, Events**  
**Grade 11 - eLearning**

**Prerequisite:** None

**BM13CE**  
**College**

**Marketing: Retail and Service**  
**Grade 11**

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

**Prerequisite:** None

**BMX3E1**  
**Workplace**

## Sports and Entertainment Marketing Grade 12

This university course is designed for students interested in sports, entertainment, and event marketing. Emphasis is placed on the following principals as they apply to the industry: fantasy sports, event marketing, sponsorship, promotions, implementation of sports / entertainment marketing plans, branding, licensing, and naming rights, endorsements, business foundations and event management techniques. This interdisciplinary course also emphasizes the development of practical skills and knowledge in order to solve problems, make decisions, create personal meaning, and present findings related to the growth of the sports and entertainment industry. Students will research, analyze, and investigate how music, dance, sports, arts and/or fashion can facilitate changes in community, societal, and cultural values.

**Prerequisite:** Any university or university/college preparation course.

IDC4U1  
University

## Business Leadership

### Business Leadership Management Grade 12 - eLearning WEST

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 are also emphasized.

**Prerequisite:** None

BOH4ME  
University/College

## Yearbook

### Designing the Yearbook: First Yearbook Experience Grade 11

This course enables students to develop media knowledge and skills while designing and producing the school yearbook and other projects in the area of graphic communications. Students will work both independently and as a part of a team learning the basics of journalism, layout and design, photography, publishing, marketing, and advertising through the production of the school yearbook and other print and electronic materials. Classroom activities will be closely related to the real world of interviewing, photographing, meeting deadlines, and producing both paper and online publications.

**Prerequisite:** None

IDC301  
Open

### Designing the Yearbook: Second Yearbook Experience Grade 12

This course enables students to develop media knowledge and skills while designing and producing the school yearbook and other projects in the area of graphic communications. Students will work both independently and as a part of a team learning the basics of journalism, layout and design, photography, publishing, marketing, and advertising through the production of the school yearbook and other print and electronic materials. Classroom activities will be closely related to the real world of interviewing, photographing, meeting deadlines, and producing both paper and online publications.

**Prerequisite:** None

IDC401  
Open

## Canadian and World Studies Civics

### Civics & Citizenship (0.5 Credit) Grade 10

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

**Prerequisite:** None

CHV205  
Open

## Geography

### Travel and Tourism: A Geographic Perspective Grade 11

This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends as well as tensions related to tourism, and will predict future tourism

CGG301  
Open

destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities.

**Prerequisite:** CGC1P1 or CGC1D1

### Travel and Tourism: A Geographic Perspective Grade 11 - eLearning Prerequisite: None

CGG30E  
Open

### World Issues: A Geographic Analysis Grade 12

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

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

CGW4U1  
University

### The Environment and Resource Management Grade 12 - eLearning

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 analyze 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.

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

CGR4ME  
University/College

## History

### First Nations, Métis, and Inuit Peoples in Canada Grade 10

This course explores First Nations, Métis, and Inuit peoples' relationships with Canada from pre-contact to the 21st century. Students will examine social, economic, political and military interactions that impact the contemporary realities of Aboriginal people in Canada in relation to identity, culture, community, land, and governance. Students will explore their own and others' ideas using the historical inquiry process to think critically and respond responsibly about civic questions raised today as a result of the changing relationships.

**Prerequisite:** None

*\* Credit may be used to meet the Grade 10 compulsory History credit requirement. See Student Services.*

NAC201\*  
Open

### Canadian History Since World War I Grade 10

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

**Prerequisite:** None

CHC2D1  
Academic

### Canadian History Since World War I Grade 10

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

**Prerequisite:** None

CHC2P1  
Applied

## Canadian History Since World War I Grade 10

This course focuses on the connections between the student and key people, events and themes in Canadian contemporary studies. Students prepare for the grade 11 Canadian and World Studies Workplace Preparation course through the development and extension of historical literacy skills and critical thinking skills. Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian identity, internal and external relationships and changes since 1914 are explored through guided investigation. Students have the opportunity to extend analytical skills with a focus on identifying and interpreting events and perspectives and making connections. Students practice reading, writing, visual, and oral literacy skills to identify and communicate ideas in a variety of media.

**Prerequisite:** None

CHC2L1  
LDCC

## World History to the End of the Fifteenth Century Grade 11

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

**Prerequisite:** CHC2P1 or CHC2D1 or NAC2O1

CHW3M1  
University/College

## World History since the Fifteenth Century Grade 12

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

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

## World History since the Fifteenth Century Grade 12

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

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

CHY4U1  
University

CHY4C1  
College

## Law

### Understanding Canadian Law Grade 11

This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of rights and freedoms in Canada, our legal system, and family, contract, employment, tort, and criminal law. Students will use case studies and apply the concepts of legal thinking and the legal inquiry process to develop legal reasoning skills and to formulate and communicate informed interpretations of legal issues, and they will develop the ability to advocate for new laws.

**Prerequisite:** CHC2P1 or CHC2D1 or NAC2O1

CLU3M1  
University/College

### Understanding Canadian Law Grade 11

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

**Prerequisite:** CHC2L1 or CHC2P1 or NAC2O1

CLU3E1  
Workplace

### Canadian and International Law Grade 12

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

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

### Canadian and International Law Grade 12 - eLearning

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

CLN4UE  
University

### Legal Studies Grade 12

This course provides a foundation for students who wish to pursue a career that requires an understanding of law. Students will explore the importance of law, analyzing contemporary legal issues and their impact. They will investigate requirements for various law-related careers as well as legal responsibilities in the workplace. Students will apply the concepts of legal thinking and the legal inquiry process to investigate the role of law in a changing society and will develop conflict-resolution skills needed for negotiation.

**Prerequisite:** CHV2O5

CLN4C1  
College

## Computer Studies

### Digital Technology and Innovations in the Changing World (Game Programming, AI, and Cyber Security)

Grade 10

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

**Prerequisite:** None

ICD2O1

Open

### Introduction to Computer Science (Game Objects and Algorithms) Grade 11

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

**Prerequisite:** None

ICS3U1  
University

### Introduction to Computer Programming (Game Objects and Algorithms)

Grade 11

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

**Prerequisite:** None

ICS3C1

College

### Computer Science (Data, Apps, and 3D) Grade 12

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

**Prerequisite:** ICS3U1

ICS4U1  
University



**Computer Programming (Data and Apps)****Grade 12**

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

**Prerequisite:** ICS3C1 or ICS3U1

**ICS4C1****College**

will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English university or college preparation course.

**Prerequisite:** ENG2D1 or ENG2DA

# English

## Compulsory Courses

**English****Grade 10**

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 oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.

**Prerequisite:** ENL1W1 or ENL1WA or ENG1D1 or ENG1DA

**ENG2D1****Academic****English - Pre-Advanced Placement****Grade 10**

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 oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.

**Prerequisite:** ENL1W1 or ENL1WA or ENG1D1 or ENG1DA

**ENG2DA****Academic****English****Grade 10**

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 study and create a variety of informational, literary, and graphic texts. An important focus will be on the consolidation of strategies and processes that help students interpret texts and communicate clearly and effectively. This course is intended to prepare students for the compulsory Grade 11 college or workplace preparation course.

**Prerequisite:** ENL1W1 or ENL1WA or ENG1D1 or ENG1DA

**ENG2P1****Applied****English****Grade 10**

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

**Prerequisite:** ENL1W1 or ENL1WA or ENG1L1 or ENG1D1

**ENG2L1****LDCC****English: Understanding Contemporary****First Nations, Métis, and Inuit Voices****Grade 11**

This course explores themes, forms, and stylistic elements of a variety of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also examines the perspectives and influence of texts that relate to those cultures. In order to fully understand contemporary text forms and their themes of identity, relationship, and self-determination, sovereignty, or self-governance, students will analyze the changing use of text forms by Indigenous authors/creators from various periods and cultures in expressing ideas related to these themes. Students

**NBE3U1****University****English: Understanding Contemporary****First Nations, Métis, and Inuit Voices****Grade 11**

This course explores the themes, forms, and stylistic elements of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also looks at the perspectives and influences of texts that relate to those cultures. In order to understand contemporary text forms and their themes of identity, relationship, and self-determination, sovereignty, or self-governance, students will study the use of text forms by Indigenous authors/creators from other periods in expressing ideas related to these themes. Students will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English college preparation course.

**Prerequisite:** ENG2P1 or ENG2D1 or ENG2DA

**NBE3C1****College****English - Pre-Advanced Placement****Grade 11**

This course emphasizes the development of literacy, critical thinking, and communication skills. 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.

**Prerequisite:** ENG2D1 or ENG2DA

**ENG3UA****University****English****Grade 11**

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

**Prerequisite:** ENG2P1 or ENG2L1

**ENG3E1****Workplace****English****Grade 12**

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

**Prerequisite:** ENG3UA or NBE3U1 or ENG3U1

**ENG4U1****University****English - Advanced Placement****Grade 12**

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

**Prerequisite:** ENG3UA or NBE3U1 or ENG3U1

**ENG4UA****University****English****Grade 12 - eLearning**

**Prerequisite:** ENG3UA or NBE3U1 or ENG3U1

**ENG4UE****University**

**English**  
**Grade 12**  
This course emphasizes consolidation of the 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.  
**Prerequisite:** ENG3C1 or NBE3C1 or NBE3U1 or ENG3UA

**ENG4C1**  
**College**

**English**  
**Grade 12**  
This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyze informational, graphic, and literary texts and create oral, written and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.  
**Prerequisite:** ENG3E1 or NBE3E1 or ENG3C1 or NBE3C1

**ENG4E1**  
**Workplace**

## Optional Courses

**Literacy Skills: Reading and Writing**  
**Grade 10**  
This course is designed to help students strengthen essential reading and writing skills, providing them with the extra literacy support they need in order to graduate. Students will read informational, graphic, and literary texts, with a focus on locating information, identifying main ideas and supporting details, building vocabulary, and consolidating skills in the application of key comprehension strategies. The course will also help students develop core learning strategies.  
**Prerequisite:** None

**ELS201**  
**Open**

**The Writer's Craft**  
**Grade 12 - eLearning WEST**  
This course emphasizes knowledge and skills related to the craft of writing. Students will analyze models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project and investigate opportunities for publication and for writing careers.  
**Prerequisite:** ENG3UA or NBE3U1

**EWC4UE**  
**University**

**Ontario Secondary School Literacy Course**  
**Grade 12**  
This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.  
**Eligibility Requirement:** Students who have been eligible to write the OSSLT at least once and who have been unsuccessful at least once are eligible to take the course. (Students who have already met the literacy requirement for graduation may be eligible to take the course under special circumstances, at the discretion of the Principal.)

**OLC401**  
**Open**

## First Nations, Métis, and Inuit Languages

**FNMI Languages: Ojibwe**  
**Level 1**  
This course is open to the entire student body and will allow students who have no prior Native language experience to develop an appreciation for a Native language and culture, to explore and experience a unique world view, and to learn to speak a Native language. Students will use the language being studied for greetings and daily routines, become familiar with its writing and sound system, and practise basic vocabulary and phrases. Students will also use information technology during course-related activities.  
**Prerequisite:** None

**LNOA01**  
**Open**

**FNMI Languages: Ojibwe**  
**Level 2**  
This course will enable students to experience the unique respect for life that permeates Native languages and cultures. Students will expand their vocabulary and knowledge of

**LNOB01**  
**Open**

phrases and expressions, using them in simple dialogues, narrative writing, grammatical constructions, and reading, and to exchange information electronically. This course is open to any student who has successfully completed at least four years of elementary Native language study, has successfully completed N11, or demonstrates the required proficiency.  
**Prerequisite:** LNOA01

## First Nations, Métis, and Inuit Studies

**First Nations, Métis, and Inuit in Canada**  
**Grade 10**  
This course explores First Nations, Métis, and Inuit peoples' relationships with Canada from pre-contact to the 21st century. Students will examine social, economic, political and military interactions that impact the contemporary realities of Aboriginal people in Canada in relation to identity, culture, community, land, and governance. Students will explore their own and others' ideas using the historical inquiry process to think critically and respond responsibly about civic questions raised today as a result of the changing relationships.  
**Prerequisite:** None

**NAC201**  
**Open**

**World Views and Aspirations of First Nations, Métis, and Inuit Communities in Canada**  
**Grade 11**  
This course focuses on the diverse beliefs, values, and aspirations between First Nations, Métis, and Inuit peoples of Canada and the political, economic, cultural and social challenges facing Aboriginal individuals and communities from various regions and cultures. By examining their own beliefs, values and assumptions, the worldviews of others and factors that influence world views, students will appreciate how traditional and contemporary beliefs and values influence present and future aspirations of Aboriginal peoples.  
**Prerequisite:** NAC201 or CHC2P1 or CHC2D1

**NBV3C1**  
**College**

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

**NDW4M1**  
**Grade 12**

## First Nations, Métis, and Inuit Business

**The Indigenous Youth Entrepreneurship Program (IYEP) is funded, and dependent on funding to run, by the Martin Family Initiative.**  
The two-credit program 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 create business plans for their own ventures. Through hands-on experiences, they will have opportunities to develop the values, characteristics, and skills often associated with successful entrepreneurs. The goal of IYEP is to help Indigenous youth develop the attitudes and skills necessary to achieve success in secondary school, in the workplace, during post-secondary education or training, and in daily life. The program invites students to develop entrepreneurial opportunities that can lead to business ownership. They gain an introduction to business that will help them prepare for the working world regardless of their choice of career. The program is also designed to improve proficiency in business mathematics, English, accounting, marketing, and information and communications technology, while supporting the acquisition of leadership skills.

**Introduction to Entrepreneurship**  
**Grade 11**  
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 business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.  
**Prerequisite:** None

**BDI3CZ**  
**College**

**E-Commerce**  
**Grade 12**  
This course provides students with the opportunity to develop and apply entrepreneurial

**BDV4CZ**  
**College**

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.

**Prerequisite:** None

## French as a Second Language

### Core French

**Core French**  
**Grade 10**

**FSF2D1**  
**Academic**

This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics in real-life situations with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will 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.

**Prerequisite:** FSF1D1

**Core French**  
**Grade 11**

**FSF3U1**  
**University**

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.

**Prerequisite:** FSF2D1

**Core French**  
**Grade 12**

**FSF4U1**  
**University**

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

**Prerequisite:** FSF3U1

## American Sign Language (ASL)

**American Sign Language as a Second Language**

**LASB01**

This course provides opportunities for students to begin to develop foundational language skills and cultural competencies in American Sign Language (ASL). Students will begin to engage in basic ASL conversational discourses in guided and interactive settings. Using a variety of strategies, they will develop skills to comprehend, construct, and present various basic ASL literary works and ASL texts, and begin to develop an understanding of the connections between ASL language, culture, and community. They will also develop the knowledge and skills necessary for lifelong language learning.

**Prerequisite:** None

## Guidance and Career Education

**Career Studies (0.5 Credit)**  
**Grade 10**

**GLC205**  
**Open**

This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will access 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.

**Prerequisite:** None

**Creating Opportunities through Cooperative Education (2 Credits)**  
**Grade 11**

**DCO30C**  
**Open**

This course consists of a learning experience connected to a community and a cooperative education curriculum focused on developing skills, knowledge, and habits of mind that will support students in their learning, including their education and career/life planning, at school and beyond, today and in the future. Within the context of their experience connected to a community, students will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being and that will strengthen

their inquiry, decision-making, and leadership skills. Students 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.

**First Cooperative Education Experience.**

**Prerequisite:** None

**Cooperative Education (2 Credits)**  
**Grade 11/12**

**GLN40C\***  
**Open**

This course is a partnership between the school and the community. The intent of a Cooperative Education placement is to provide students with effective skills, attitudes and work habits necessary to enter the work force and/or further academic pursuits. Senior students may earn credits while working in a job that is directly related to a senior course that the student is taking (or has taken recently.) Students are not paid while at a Co-op placement. Students attend their cooperative education placement in the morning or in the afternoon for one semester to earn 2 credits. Students are monitored by the Co-op teacher.

**Second Cooperative Education Experience. \* SHSM Students choose this section**

**Prerequisite:** None

## Health and Physical Education

**Healthy Active Living Education**  
**Grade 10**

**PPL201**  
**Open**

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

**Prerequisite:** None

**Healthy Active Living Education (Female)**  
**Grade 10**

**PPL20X**  
**Open**

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

This course is only open to female students.

**Prerequisite:** None

**Introduction to Personal Fitness**  
**Grade 10**

**PAF201**  
**Open**

This course focuses on the development of a healthy lifestyle through the introduction of fitness activities in our state-of-the-art fitness facility. Through the introduction and development of weight training, aerobics, and a variety of athletic training methods, students will explore personal fitness goal-setting and physical well-being.

**Prerequisite:** None

**Health for Life**  
**Grade 11 - eLearning WEST**

**PPZ3CE**  
**College**

This course enables students to examine the factors that influence their own health practices and behaviours as well as those factors that contribute to the development of healthy communities. It emphasizes the concept of wellness, which addresses all aspects of well-being – physical, cognitive, emotional, spiritual and social – and promotes healthy eating, physical activity, and building and maintaining a positive sense of self. Students will develop the skills necessary to make healthy choices and create a personal wellness plan. They will also design initiatives that encourage others to lead healthy, active lives. The course prepares students for college programs in health sciences, fitness, wellness, and health promotion.

**Prerequisite:** None

**Healthy Active Living Education**  
**Grade 11**

**PPL301**  
**Open**

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participa-

tion 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.

**Prerequisite:** None

**Healthy Active Living Education**  
**Grade 11 - eLearning**  
**Prerequisite:** None

**PPL30E**  
**Open**

**Personal Fitness**  
**Grade 11**

**PAF301**  
**Open**

This course builds on the skills, training and fitness of PAF201 in out state-of-the-art fitness facility. Through the continued development of skills and practice in weight training, aerobics, and a variety of athletic training methods, students will explore personal fitness goal-setting and lifelong physical well-being.

**Prerequisite:** None

**Healthy Active Living Education**  
**Grade 12**

**PPL401**  
**Open**

This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

**Prerequisite:** None

**Personal Fitness**  
**Grade 12**

**PAF401**  
**Open**

This course culminates the skills, training and fitness of PAF201 and PAF301 in our state-of-the-art fitness facility. Growing on their learning skills and practice in weight training, aerobics, and a variety of athletic training methods, students will further develop their personal fitness knowledge and lifelong physical well-being for possible advancements in the personal training and fitness career path.

**Prerequisite:** None

**Introductory Kinesiology**  
**Grade 12**

**PSK4U1**  
**University**

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, nursing, and sports administration.

**Prerequisite:** Any Grade 11 University or University/College preparation course in science, or any Grade 11 or 12 course in Health and Physical Education.

**Introductory Kinesiology**  
**Grade 12 - eLearning**

**PSK4UE**  
**University**

**Prerequisite:** Any Grade 11 University or University/College preparation course in science, or any Grade 11 or 12 course in Health and Physical Education.

## Mathematics

**Principles of Mathematics**  
**Grade 10**

**MPM2D1**  
**Academic**

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

**Prerequisite:** MTH1W1 or MTH1WA

**Principles of Mathematics - Pre-Advanced Placement**  
**Grade 10**

**MPM2DA**  
**Academic**

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

**Prerequisite:** MTH1W1 or MTH1WA

**Foundations of Mathematics**  
**Grade 10**

**MFM2P1**  
**Applied**

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

**Prerequisite:** MTH1W1 or MTH1WA

**Mathematics**  
**Grade 10**

**MAT2L1**  
**LDCC**

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 11 Mathematics Workplace 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.

**Prerequisite:** MAT1L1 or MTH1W1 or MTH1WA

**Functions**  
**Grade 11**

**MCR3U1**  
**University**

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

**Prerequisite:** MPM2D1 or MPM2DA

**Functions - Pre-Advanced Placement**  
**Grade 11**

**MCR3UA**  
**University**

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

**Prerequisite:** MPM2D1 or MPM2DA

**Functions and Applications**  
**Grade 11**

**MCF3M1**  
**University/College**

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

**Prerequisite:** MFM2P1 or MPM2D1 or MPM2DA

**Foundations for College Mathematics**  
**Grade 11**

**MBF3C1**  
**College**

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations, as well as of measurement and geometry; investigate situations involving ex-



ponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; and develop their ability to reason by collecting, analysing, and evaluating data involving one or two variables. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

**Prerequisite:** MFM2P1 or MPM2D1 or MPM2DA

### Mathematics for Work and Everyday Life Grade 11

MEL3E1  
Workplace

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

**Prerequisite:** MAT2L1 or MFM2P1 or MPM2D1

### Advanced Functions Grade 12

MHF4U1  
University

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

**Prerequisite:** MCR3U1 or MCR3UA or MCT4C1

### Calculus and Vectors Grade 12

MCV4U1  
University

This course builds on students' experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential, and sinusoidal functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.

**Prerequisite:** MHF4U1 can be taken concurrently with (see \* below) or can precede MCV4U1

### Calculus and Vectors Grade 12 - eLearning WEST

MCV4UE  
University

**Prerequisite:** MHF4U1 can be taken concurrently with (see \* below) or can precede MCV4U1

### Concurrent 2 Credit offering for AP Mathematics Students Advanced Functions / Calculus and Vectors

Full Year  
12MFCV

Please take a moment to read the course descriptions for the full curriculum overview and expectations. This 2 credit, consecutive offering of the senior math courses will allow students to begin the AP Calculus and Vectors immediately upon completion of the Advanced Functions. The course extends students' experience with Functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will 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 courses 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.

This 2 credit, consecutive offering builds on students' previous experience with functions and their developing understanding of rates of change. Students will broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions, apply these concepts and skills to the modelling of real-world relationships; and extend their knowledge of calculus to the field of integration and related theorems. Students will refine their use of the mathematical processes necessary for success in senior Mathematics. Students will solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in three-dimensional space. This combined 2 credit 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.

**Prerequisites:** MCR3U1 or MCR3UA

### Data Management Grade 12

MDM4U1  
University

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

**Prerequisite:** MCF3M1 or MCR3U1 or MCR3UA

### Foundations for College Mathematics Grade 12

MAP4C1  
College

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.

**Prerequisite:** MBF3C1 or MCF3M1 or MCR3UA or MCR3U1

### Mathematics for College Technology Grade 12

MCT4C1  
College

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

**Prerequisite:** MCF3M1 or MCR3U1 or MCR3UA

### Mathematics for Work and Everyday Life Grade 12

MEL4E1  
Workplace

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

**Prerequisite:** MEL3E1

## Science General Science

### Science Grade 10

SNC2D1  
Academic

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

**Prerequisite:** SNC1W1 or SNC1WA

### Science - Pre-Advanced Placement Grade 10

SNC2DA  
Academic

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

**Prerequisite:** SNC1W1 or SNC1WA



<b>Science</b> <b>Grade 10</b> 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. <b>Prerequisite:</b> SNC1W1 or SNC1WA	<b>SNC2P1</b> <b>Applied</b>	<b>Chemistry</b> <b>Grade 11 - eLearning WEST</b> <b>Prerequisite:</b> SNC2D1 or SNC2DA	<b>SCH3UE</b> <b>University</b>
<b>Biology</b> <b>Biology</b> <b>Grade 11</b> 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. <b>Prerequisite:</b> SNC2D1 or SNC2DA	<b>SBI3U1</b> <b>University</b>	<b>Chemistry</b> <b>Grade 12</b> 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. <b>Prerequisite:</b> SCH3U1	<b>SCH4U1</b> <b>University</b>
<b>Biology - Pre-Advanced Placement</b> <b>Grade 11</b> 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. <b>Prerequisite:</b> SNC2D1 or SNC2DA	<b>SBI3UA</b> <b>University</b>	<b>Chemistry</b> <b>Grade 12 - eLearning WEST</b> <b>Prerequisite:</b> SCH3U1	<b>SCH4UE</b> <b>University</b>
<b>Biology</b> <b>Grade 11</b> 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. <b>Prerequisite:</b> SNC2P1 or SNC2D1 or SNC2DA	<b>SBI3C1</b> <b>College</b>	<b>Chemistry</b> <b>Grade 12 - eLearning</b> <b>Prerequisite:</b> SNC2P1 or SNC2D1 or SNC2DA	<b>SCH4CE</b> <b>College</b>
<b>Biology</b> <b>Grade 12</b> 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. <b>Prerequisite:</b> SBI3U1 or SBI3UA	<b>SBI4U1</b> <b>University</b>	<b>Physics</b> <b>Grade 11</b> 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. <b>Prerequisite:</b> SNC2D1 or SNC2DA	<b>SPH3U1</b> <b>University</b>
<b>Biology - Advanced Placement</b> <b>Grade 12</b> This course provides students with the opportunity for indepth 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. <b>Prerequisite:</b> SBI3U1 or SBI3UA	<b>SBI4UA</b> <b>University</b>	<b>Physics</b> <b>Grade 12</b> 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. <b>Prerequisite:</b> SPH3U1	<b>SPH4U1</b> <b>University</b>
<b>Chemistry</b> <b>Chemistry</b> <b>Grade 11</b> This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment. <b>Prerequisite:</b> SNC2D1 or SNC2DA	<b>SCH3U1</b> <b>University</b>	<b>Physics</b> <b>Grade 12 - eLearning WEST</b> <b>Prerequisite:</b> SPH3U1	<b>SPH4UE</b> <b>University</b>
		<b>Physics</b> <b>Grade 12</b> 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; 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. <b>Prerequisite:</b> SNC2P1 or SNC2D1 or SNC2DA	<b>SPH4C1</b> <b>College</b>

**Physics**  
**Grade 12 - eLearning WEST**  
**Prerequisite: SNC2P1 or SNC2D1 or SNC2DA**

**SPH4CE**  
**College**

cate with them, and effectively guide their early behaviour. Students will develop their research skills through investigations related to caregiving and child rearing.  
**Prerequisite: None**

## Environmental Science

**Environmental Science**  
**Grade 11**

**SVN3M1**  
**University/College**

This course provides students with the fundamental knowledge and skills related to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.  
**Prerequisite: SNC2P1 or SNC2D1 or SNC2DA**

**Environmental Science**  
**Grade 11**

**SVN3E1**  
**Workplace**

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in work and life after secondary school. Students will explore a range of topics, including the impact of human activities on the environment; human health and the environment; energy conservation; resource science and management; and safety and environmental responsibility in the workplace. Emphasis is placed on relevant, practical applications and current topics in environmental science, with attention to the refinement of students' literacy and mathematical literacy skills as well as the development of their scientific and environmental literacy.  
**Prerequisite: SNC1W1 or SNC1WA or SNC2P1 or SNC1P1 or SNC2D1**

## Social Sciences and Humanities Family Studies

**Food and Nutrition**  
**Grade 10**

**HFN2O1**  
**Open**

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

**Prerequisite: None**

**Food and Culture**  
**Grade 11**

**HFC3M1**  
**University/ College**

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

**Prerequisite: None**

**Understanding Fashion**  
**Grade 11**

**HNC3C1**  
**College**

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

**Prerequisite: None**

**Raising Healthy Children**  
**Grade 11**

**HPC3O1**  
**Open**

This course focuses on the skills and knowledge parents, guardians, and caregivers need, with particular emphasis on maternal health, pregnancy, birth, and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communi-

**Raising Healthy Children**  
**Grade 11 - eLearning**  
**Prerequisite: None**

**HPC3OE**  
**Open**

**Nutrition and Health**  
**Grade 12**

**HFA4U1**  
**University**

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

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

**Nutrition and Health**  
**Grade 12 - eLearning**

**HFA4UE**  
**University**

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

**Human Development Throughout the Lifespan**  
**Grade 12**

**HHG4M1**  
**University/College**

This course offers a multidisciplinary approach to the study of human development throughout the lifespan. Students will learn about a range of theoretical perspectives on human development. They will examine threats to healthy development as well as protective factors that promote resilience. Students will learn about physical, cognitive, and social-emotional development from the prenatal period through old age and will develop their research and inquiry skills by investigating issues related to human development.

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

**Human Development Throughout the Lifespan**  
**Grade 12 - eLearning**

**HHG4ME**  
**University/College**

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

**Families in Canada**  
**Grade 12 - eLearning**

**HHS4UE**  
**University**

This course enables students to draw on sociological, psychological, and anthropological theories and research to analyse 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.

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

**Personal Life Management**  
**Grade 12**

**HIP4O1**  
**Open**

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

**Prerequisite: None**

## Social Sciences

**Introduction to Anthropology, Psychology, and Sociology**  
**Grade 11**

**HSP3U1**  
**University**

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

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

**Prerequisite:** ENG2D1 or CHC2D1

### Challenge and Change in Society Grade 12

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

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

### Challenge and Change in Society Grade 12 - eLearning WEST

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

### HSB4U1 University

### HSB4UE University

## Technological Education Construction Technology

### Construction Technology Grade 10

This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will 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 post secondary pathways leading to careers in the industry.

**Prerequisite:** None

### TCJ201 Open

### Construction Engineering Technology Grade 11

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

**Prerequisite:** None

### TCJ3C1 College

### SHSM Construction Engineering Technology (2 Credits) Grade 11

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

**Prerequisite:** None

### TCJ3C2 College

### Construction Technology Grade 11

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

**Prerequisite:** None

### TCJ3E1 Workplace

### SHSM Construction Technology (2 Credits) Grade 11

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

**Prerequisite:** None

### TCJ3E2 Workplace

### Custom Woodworking Grade 11

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, post secondary training, and career opportunities in the field that may be pursued directly after graduation.

**Prerequisite:** None

### TWJ3E1 Workplace

### Construction Engineering Technology Grade 12

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

**Prerequisite:** TCJ3C1

### TCJ4C1 College

### SHSM Construction Engineering Technology (2 Credits) Grade 12

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

**Prerequisite:** TCJ3C2

### TCJ4C2 College

### Construction Technology Grade 12

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 will explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation.

**Prerequisite:** TCJ3E1 or TCJ3C1

### TCJ4E1 Workplace

### SHSM Construction Technology (2 Credits) Grade 12

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 will explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation.

**Prerequisite:** TCJ3E2 or TCJ3C2

### TCJ4E2 Workplace

### Custom Woodworking Grade 12

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

**Prerequisite:** TWJ3E1

### TWJ4E1 Workplace

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 post secondary pathways leading to careers in the industry.

**Prerequisite:** None

## Hospitality and Tourism

### Hospitality and Tourism (Culinary Focus) (2 Credits) Grade 11

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

**Prerequisite:** None

### TFJ3C2/TFJ3E2 College/Workplace

### SHSM Manufacturing Technology (2 Credits) Grade 11

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

**Prerequisite:** None

### TMJ3C2 College

### Manufacturing Technology - Welding (Female) Grade 11

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

*This course is only open to female students.*

**Prerequisite:** None

### TMJ3CX College

### Hospitality and Tourism (Culinary Focus) (2 Credits) Grade 12

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

**Prerequisite:** TFJ3C2 or TFJ3E2

### TFJ4C2/TFJ4E2 College/Workplace

### Hospitality and Tourism (Culinary Focus) Grade 11

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

**Prerequisite:** None

### TFJ3C1/TFJ3E1 College/Workplace

### Hospitality and Tourism (Culinary Focus) Grade 12

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

**Prerequisite:** TFJ3C1 or TFJ3E1 or TFJ3E2 or TFJ3C2

### TFJ4C1/TFJ4E1 College/Workplace

### Manufacturing Technology - Welding Grade 11

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

**Prerequisite:** None

### TMW3E1 Workplace

### SHSM Manufacturing Technology (2 Credits) Grade 11

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

**Prerequisite:** None

### TMJ3E2 Workplace

### SHSM Manufacturing Technology (2 Credits) Grade 12

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

**Prerequisite:** TMJ3C2

### TMJ4C2 College

## Manufacturing Technology

### Manufacturing Technology Grade 10

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.

### TMJ2O1 Open

### SHSM Manufacturing Technology (2 Credits) Grade 12

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

**Prerequisite:** TMJ3C2

### TMJ4E2 Workplace



## **Manufacturing Technology Grade 12**

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 welding machines and other related tools and equipment as they design and fabricate solutions to a variety of technological challenges in manufacturing. Students may have opportunities to acquire industry-standard training and certification. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry.

**Prerequisite:** TMW3E1 or TMJ3C/E2 or TMJ3CX

## **TMW4E1 Workplace**

Students will develop an awareness of environmental and societal issues related to vehicle ownership and use, and will explore career opportunities in the transportation industry.

**Prerequisite:** None

## **SHSM Transportation Technology: Auto Service (2 Credits) Grade 11**

## **TTA3C2 College**

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

**Prerequisite:** None

**\* Transportation Services: Specialist High Skills Major Component**

## **SHSM Transportation Technology: Aviation (2 Credits) Grade 11**

## **TTL3C2 College**

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

**Prerequisite:** None

**\* Transportation Services: Specialist High Skills Major Component**

## **SHSM Transportation Technology: Auto Service (2 Credits) Grade 12**

## **TTA4C2 College**

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

**Prerequisite:** TTA3C2

**\* Transportation Services: Specialist High Skills Major Component**

## **SHSM Transportation Technology: Aviation (2 Credits) Grade 12**

## **TTL4C2 College**

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

**Prerequisite:** TTL3C2

**\* Transportation Services: Specialist High Skills Major Component**

## **Transportation Technology: Vehicle Maintenance Grade 12**

## **TJ4E1 Workplace**

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

**Prerequisite:** None

# **Technological Design**

## **Technological Design Grade 10**

## **TDJ201 Open**

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

**Prerequisite:** None

## **Technological Design & the Environment Grade 11**

## **TDJ301 Open**

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

**Prerequisite:** None

## **Technological Design: Architectural Design Grade 11**

## **TDA3M1 University/College**

This course provides students with opportunities to apply the principles of basic design to technological challenges in industry, engineering, architecture, manufacturing, and graphics. Students will develop problem-solving and design skills through the use of technical drawings and illustrations, model building, testing, and marketing. They will also become aware of consumer, business, and environmental issues in the creation and marketing of products or services, and the educational requirements of design-related careers.

**Prerequisite:** None

## **Technological Design: Architectural Design Grade 12**

## **TDA4M1 University/College**

This course provides students with opportunities to solve problems in design through the use of technical drawings, model building, testing, and marketing. Students will research, design, and test solutions for residential or commercial architecture, industrial engineering, and manufacturing. They will also examine the educational requirements of a technical-design related career in engineering, architecture, or industrial design.

**Prerequisite:** TDA3M1

# **Transportation Technology**

## **Transportation Technology Grade 10**

## **TTJ201 Open**

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

**Prerequisite:** None

## **Transportation Technology: Vehicle Ownership Grade 11**

## **TTJ301 Open**

This general interest course enables students to become familiar with the options and features of various vehicles, issues of registration, and the legal requirements affecting vehicle owners. Students will also learn about vehicle financing and insurance, vehicle maintenance, emergency procedures, and the responsibility of being a vehicle owner. Students

# SENIOR SPECIALIST FOCUS LEARNING

## Cooperative Education

Cooperative Education is a unique program for students, integrating academic and technical study with practical experience in business and industry.

This learning experience helps students make informed decisions about future careers. Students also develop the work habits, attitudes and job skills necessary for a successful transition from secondary school to the workplace or post-secondary education. Cooperative Education students are typically in the senior grades, have a variety of post-secondary destinations: apprenticeship, college, university, work, and may be studying in any subject area.

Cooperative education opportunities are available in all Lakehead Public High Schools.

## Ontario Youth Apprenticeship Program (OYAP)

All senior students can explore the career potential of the skilled trades with OYAP as their start point. Over 140 skilled trades offer an opportunity to learn, work and enjoy occupations with career flexibility and portability, professional licensing, a wide range of further training opportunities, small business ownership and a diversified and valued skill set.

Students can begin to accumulate credit towards an apprenticeship in their chosen skilled trade while they complete the requirements of their high school education. Students who are interested in participating in OYAP will need to choose cooperative education in their Grade 11 and/or Grade 12 year. To participate, students must have completed 16 credits and be at least 16 years of age.

An Ontario Youth Apprenticeship Program (OYAP) student is a student who is earning cooperative education credits for work experience in an apprenticeship occupation. The student may or may not be formally registered as an apprentice while attending secondary school.



## Focused Apprenticeship Skills Training (OYAP-FAST)

If you are interested in learning more about the skilled trades through cooperative education, OYAP-FAST is an accelerated stream within OYAP that will allow students in Grades 11 and 12 to participate in more apprenticeship learning through additional co-operative education credits while completing their OSSD.

To participate in OYAP-FAST, students must:

- Meet the OYAP eligibility requirements - 15 years or older, have completed 14 credits toward OSSD
- Have signed parent/guardian consent to participate in OYAP-FAST

Completion requirements for OYAP-FAST include that a student has:

- Earned 8 to 11 cooperative education credits with their placement component in the skilled trades.
- Registered as an apprentice (obtained a Registered Training Agreement (RTA)) by the time they complete their eighth cooperative education credit.

Students who meet the above completion requirements and all other OSSD requirements will be awarded the OYAP-FAST seal on their OSSD.

## Cooperative Education Programs

### Canadian Armed Forces

#### Army Reserve Semester 2

COP4XA

The Army Reserve Co-op Program includes basic military training as an introduction to life in the Canadian Forces, specific to the Army Reserve. This means training to be a member of one of the Army Reserve units in Thunder Bay, at the Armoury on Park Avenue. The Army Reserve units in Thunder Bay are: 736 Communications Squadron, which specializes in electronic communications; the Lake Superior Scottish Regiment, which is an infantry unit; 18 Service Battalion, which specializes in transport, supply/logistics and technical repair and maintenance; and 18 Field Ambulance, which specializes in health care and trauma support services.

To be eligible, students must meet the following conditions:

- 16 years old prior to the starting date of the program;
- A Canadian citizen;
- Have a minimum of 15 credits prior to the start of the program;
- Enrolled in Semester 2 Co-op (afternoon);
- Successfully complete the entrance requirements prior to December 1 of the school year (physical, medical, aptitude);
- Able to attend program from 1:00 p.m. - 5:30 p.m., Monday through Friday and the occasional weekend training sessions, as well as the March Break.

### Naval Reserve

COP4XN

#### Summer Program (See Student Services)

The Naval Reserve Co-op Program includes introductory training to life in the Canadian Forces, specifically the Canadian Naval Reserve. This means training to be part of the crew of a Canadian Navy Ship, a member of a Port Security Unit, a Port Inspection Diving Team or a Naval Intelligence Team. Students will work out of HMCS Griffon, Thunder Bay's Naval Reserve Unit located on Algoma Street.

To be eligible students must meet the following conditions.

- 16 years old prior to the start date of the program;
- A Canadian citizen;
- Have a minimum of 15 credits prior to start date;
- Successfully complete the entrance requirements prior to the start (physical, medical, aptitude);
- Be able to attend program

### Aviation Technology

TTL3CC | TTL4CC

Aviation Technology is a program that is taught at the Confederation College A.C.E. Centre located at the Thunder Bay International Airport.

#### Grade 11 Semester 1 | Grade 12 Semester 2

Students will study aerodynamics, aircraft components, aircraft hardware and materials, inspection procedures and methods, ground marshalling and handling of aircraft, aircraft engines, and flight related subjects. Aviation Technology may include a cooperative education component incorporating practical experience within the aviation industry at the airport. This partnership between Lakehead Public Schools and Confederation College will give students regular exposure to the College's A.C.E. Aviation facility. Included in the program are field trips to related industries such as air traffic control, Bombardier and the Ministry of Natural Resources (CL415 Water Bombers.) All mathematics and physics requirements will be taught in the program.

## Dual Credits

### Secondary Credit + College Credit

Dual credits are defined as a high school credit and a college credit earned at the same time. The opportunity to earn two credits simultaneously is available to senior students in programs that vary each year.





### College Link

The College Link program will bring students into the college environment while completing their high school course requirements. College Link emphasizes communication, literacy, and planning for the future.

Students will be enrolled in the dual credit course General Education Elective while working on high school credits through an independent learning model. Once a student has achieved that dual credit successfully they are then allowed to take up to three (3) college delivered dual credit top up courses.

College Link courses are subject to change, please see Student Services for a current list of course options.

Monday-Friday | 9:30 am 3:30 pm

*Please see Administration/Vice Principal to be enrolled in the College Link Program.*

### Team Taught Dual Credits

These programs are team taught by College and Secondary School Staff. Students are able to obtain both a Secondary Credit and a College Credit simultaneously. These dual credit opportunities are available at the designated school.

### Aviation Link

#### **TTL4C Transportation Technology: Light Aircraft (Grade 12) & TP166 Aviation Studies 1 (College)**

Students will be introduced to a variety of basic skills related to the aviation industry. Students will have the opportunity to use aircraft simulators, classroom time, and practicum in an actual aircraft maintenance hangar. This course is recommended for students who are considering flight management, aviation technician, or aerospace manufacturing engineering technician / technology as a future program. Through a combination of theory and practical experience, students will gain the background necessary to proceed with further study in a more advanced program.

**Superior | Hammarckjold | Westgate**

### Communication for Success Link

#### **ENG4C English (Grade 12) & CS007 Persuasive Writing (College)**

This course will focus on communication as it applies to students' chosen career pathway, with a specific focus on literacy skills necessary in the trades and technology programs at the post secondary level. Students will learn how to express themselves clearly, correctly, and persuasively in written form through analytical reading and critical thinking based on current issues and resources. This course will also help students to compile and present research in essay form in an effective and coherent manner according to the APA style of documentation. In particular, students will engage in pre-writing strategies to locate, sort and organize information for potential writing tasks; determine the relevancy and appropriateness of topics; generate an outline for a report or presentation; edit and proof-read written tasks; and publish a document according to accepted conventions.

**Hammarckjold**

### Manufacturing Link

#### **TMJ4E Manufacturing Technology (Grade 12) or TMW4E (Welding) & WC 126 Flat T-Joint Module (College)**

In this course the students will identify the different welding procedures for T-Joints in flat, horizontal, vertical and overhead positions. Welding exercises are demonstrated using 6010-11 and 7018 electrodes in these positions and specific safety precautions for overhead welding are addressed.

**Superior | Westgate**

### Transportation Link

#### **TTA4C Transportation Technology (Grade 12) & HC 121 Applied Work Practices and Procedures (College)**

This course introduces students to occupational health and safety, basic hand and power tools, precision measuring tools, fastening devices and torquing procedures. Heating and cutting methods are introduced.

**Westgate**

**Please check with Student Services for the current selection of dual-credit courses!**

## College Now!



<http://www.confederationcollege.ca/collegenow>

### Change Your Life Through Learning

The College Now program is provided in partnership with the School College Work Initiative (SCWI), the Thunder Bay Catholic District School Board, and Lakehead Public Schools. Students can take "College Now" courses with an opportunity to earn credits that count toward both a secondary school and college diploma or certificate. Dual Credits let students "experience" college courses while still in high school.

Students must be:

- 17 or 18 years old in the graduating year;
- working towards an Ontario Secondary School Diploma;
- registered in a minimum of one high school credit in their home school; and
- approved by the school Principal.

In first semester, students have the opportunity to enroll in program specific college classes as a dual credit student (top-up credit in an actual college class with college students) as well as General Education Electives that are congregated (only high school students).

In second semester, students have the opportunity to enroll in General Education Electives and program specific classes that are all offered as congregated classes (only high school students).

Please check with Student Services to confirm which courses are available each semester.



[www.lakeheadschoools.ca](http://www.lakeheadschoools.ca)

### **Foods of the Americas**

#### **GE080/TKL4T (College Code/High School Code)**

This course provides a basis for understanding the global impact that resulted from the introduction of indigenous foods from the Americas as well as the cultural impact that colonization had on the lifestyles of the American First Nations peoples.

### **Introduction to the Trades**

#### **TP155/TAP4T (College Code/High School Code)**

Trades Studies I is designed to introduce the students to a variety of skilled trades. The students will have the opportunity to spend one third of the semester in each of the following trade areas; carpentry, welding and motive power. This course is recommended for students who are considering a trades, techniques or pre-apprenticeship as a future program. Through a combination of theory and practical experience, the student will gain the background necessary to proceed with further study in a more advanced program.

### **Building Skills for Success**

#### **GE113/JEB4T (College Code/High School Code)**

This transformative course will provide you with the practical skills, knowledge and attitudes you need for success in college, your career and your life. In order to maximize your post-secondary experience, you will learn about your personal learning style, how to study effectively, how to take notes, how to manage your time, the importance of effective communication and much more. You will also discover specific abilities and characteristics that will provide you with the opportunity for personal growth and increased well-being. Learn how to maximize your potential with this course!

### **Baking and Pastry Arts**

#### **CU130/TUE4T (College Code/High School Code)**

This course will enable the student to demonstrate basic professional baking techniques and a working knowledge of baking fundamentals for a la carte and banquet settings. The course content will cover the mixing methods used to produce yeast breads, quick breads, pies, tarts, doughs, sponge based pasteries, custard, creams, choux paste and laminate products.

### **Introduction to Psychology**

#### **PY199/HBB4T (College Code/High School Code)**

This course introduces the student to the world of psychology by highlighting human behaviour and mental processes at the individual level. Students will learn why people do and think the way they do from a variety of perspectives and how psychological principles apply to everyday life situations. This introductory course provides a strong foundation for other courses in psychology.

### **Wellness for Life**

#### **AS220/PPI4T (College Code/High School Code)**

The physical, emotional, social, intellectual, and spiritual dimensions of health are the focus of this course. Students will be provided with current factual information about a broad range of health-related issues including stress, substance abuse, sexuality, fitness, weight management, environmental concerns, and death and dying. As well, students will be actively involved in examining the impact of lifestyle choices upon their own health status.

### **Introduction to the Trades**

#### **TP155/TAP4T (College Code/High School Code)**

Trades Studies I is designed to introduce the students to a variety of skilled trades. The students will have the opportunity to spend one third of the semester in each of the following trade areas; carpentry, welding and motive power. This course is recommended for students who are considering a trades, techniques or pre-apprenticeship as a future program. Through a combination of theory and practical experience, the student will gain the background necessary to proceed with further study in a more advanced program.

*Check with Student Services for dates, times, and a current list of available courses.*

# **ALWAYS ONLY THE BEST**





## Specialist High Skills Majors

Specialist High Skills Majors were developed to give students the opportunity to focus on a specific area of study.

Credit bundles are made up of sector-specific courses. Students acquire skills and knowledge in a hands-on, career-related learning environment with others who have the same goals and career expectations.

- Major credits
- Cooperative education credits (sector-specific)
- Plus additional credits with a focus in the stated discipline

Application and scheduling information is available from your Student Services Guidance Counsellor. Stop in for more information about the focus courses and specialized training students can receive with their SHSM participation.

### Arts & Culture | Westgate

For students who are interested in a career in the Arts and Culture sector (music, dance, drama, graphics, design, communication technology, visual art, theatre arts, and more) this Specialist High Skills Major offers students a solid foundation in the area of study. Students will be required to declare a Major area of study. The SHSM required credits, sector specific cooperative education opportunities, along with specialized sector training and certification are available for students to further expand their learning experiences.

### Aviation & Aerospace | Westgate

For students who are interested in a career in the Aviation and Aerospace sector (aircraft maintenance, aircraft inspection, instrumentation, electrical or avionics mechanics, piloting, air traffic control, flight engineering, mechanical engineering, and more) this Specialist High Skills Major offers students a solid foundation in the area of study. The SHSM required credits, sector specific cooperative education opportunities, along with specialized sector training and certification are available for students to further expand their learning experiences.

### Business | Westgate

For students who are interested in a career in the Business sector (trade and commerce, finance and insurance, accounting, real estate, marketing, information technology, and more) this Specialist High Skills Major offers students a solid foundation in the area of study. The SHSM required credits, sector specific cooperative education opportunities, along with specialized sector training and certification are available for students to further expand their learning experiences.

### Construction | Hammariskjold, Westgate

For students who are interested in a career in the Construction sector (carpentry, architecture, construction management, electrical, home renovations, plumbing, structural engineering, home inspection, and more) this Specialist High Skills Major offers students a solid foundation in the area of study. The SHSM required credits, sector specific cooperative education opportunities, along with specialized sector training and certification are available for students to further expand their learning experiences.

### Health & Wellness | Superior

For students who are interested in a career in the Health and Wellness sector (child and youth work, Aboriginal early childhood education, fire and police foundations, massage therapy, paramedics, ultrasound, dental, nursing, nutrition sciences, physical therapy, and more) this Specialist High Skills Major offers students a solid foundation in the area of study. The SHSM required credits, sector specific cooperative education opportunities, along with specialized sector training and certification are available for students to further expand their learning experiences.

### Hospitality & Tourism | Westgate

This Specialist High Skills Major (SHSM) program is designed for students interested in a career in one of the over 400 hundred occupations in the Hospitality and Tourism sector. Hospitality and Tourism jobs provide plenty of opportunities for advancement, widely transferable skills, and ongoing training.

As part of the Hospitality & Tourism SHSM, you will earn six or more sector specific certifications, earn a minimum of two co-operative education credits, 4 major credits and be involved in experiential learning and reach ahead experiences.

For Hospitality & Tourism SHSM participants, 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

### Justice, Community Safety & Emergency Services | Hammariskjold

For students who are interested in a career in either the First Responder Stream (Canadian Armed Forces, firefighting, paramedics, law enforcement, corrections, border control, and more) or Legal and Administrative Stream (law, bylaws, government, paralegal, policy, administration, and more) this Specialist High Skills Major offers students a solid foundation in the chosen area of study. The SHSM required credits, sector specific cooperative education opportunities, along with specialized sector training and certification are available for students to further expand their learning experiences.

### Manufacturing | Superior, Westgate

For students who are interested in a career in the Manufacturing sector (metal work, welding, millwrighting, machining, engineering, and more) this Specialist High Skills Major offers students a solid foundation in the area of study. The SHSM required credits, sector specific cooperative education opportunities, along with specialized sector training and certification are available for students to further expand their learning experiences.

### Transportation Services | Westgate

For students who are interested in a career in the Transportation Services sector (automotive service, heavy duty equipment operation, stationary engineering, electrical engineering, machine operation, and more) this Specialist High Skills Major offers students a solid foundation in the area of study. The SHSM required credits, sector specific cooperative education opportunities, along with specialized sector training and certification are available for students to further expand their learning experiences.





It's my time to be a **WESTGATE TIGER!**  
**YOU**  
belong here!

Your place to learn, achieve & thrive



Advanced Placement



# WESTGATE

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