

2025–2026
Course Calendar

<http://clarke.kprdsb.ca>



Introductory Welcome

Welcome to the next chapter of your child's academic career! Entering high school is an incredibly exciting time of planning, reviewing, and discussing academic goals and course choices.

We encourage students to explore their unique strengths and interests to guide their pathway. Pathways come in many forms: University, College, Workplace, and Apprenticeship. Each pathway is made up of courses that a student chooses. These courses are coded in the type and destination. For example, grade 9 courses are destreamed (open level). Grade 10 courses transition into academic and applied, with Grade 11 and 12 courses moving into university and college level. In situations where students are unable to meet the expectations of the destreamed curriculum, locally developed / workplace courses can help build life skills with practical applications. It is important to note that the locally developed-workplace pathway must first be consulted with Special Education Departments and guided by specific criteria.

It is possible for students to change their pathway when progressing through high school. Students will learn and grow in their four years of high school and their pathway should reflect that! The Staff and Administration at Clarke High School are very dedicated to ensuring student success and well-being. Guidance Counsellors are here to help with course selections, pathways, and career goals while Student Success Teachers are here to help with personal, social, and academic schoolwork. The Special Education Teachers will work in partnership to ensure that Individual Education Plans are updated and maintained while Classroom Teachers are here to support students in their knowledge and skills to succeed in education, work, and life.

Best wishes and a warm welcome to the Clarke Raiders!






Clarke Clubs & Groups


YEARBOOK CLUB



CLARKE HIGH SCHOOL
2023-2024



STUDENT COUNCIL



TUESDAYS ROOM 106

LET'S TALK ABOUT UPCOMING SCHOOL EVENTS - SPIRIT WEEK - SCHOOL DANCES - FUNDRAISERS - ETC

BOOK CLUB

Wednesdays at lunch IN THE LC

Come and talk about your favorite books and start reading different books with the group.

GSA
GENDERS AND SEXUALITIES ALLIANCE

LUNCH MEETING

Mondays in Room 203 (the art room)
10:50 - 11:40AM

Interested in the GSA Club? Whether you have been a part of one before or if you are curious to learn more, **ALL students are welcome!**

PROUD to be ME!

Have questions? Contact Mr. Frawley or Mrs. Rabitaille

CODING & ROBOTICS CLUB

Thursdays in room 218 at lunch

All are welcome!

What we do:
Use coding languages to make programs!
Combine coding with robotics to make robots come to life!



Artwork by Lukmanin, Cherry Pie, 1962

Clarke HS
Art Club

Fridays at lunch in room 203 (the art room)

Have questions? Contact Mr. Frawley

COME TO THE GYM AT LUNCH FOR

SPORTS FITNESS INTRAMURALS

CLARKE HS PRESENTS...

GAMES Club

FRIDAYS AT LUNCH IN ROOM 116
(ACROSS FROM THE LEARNING COMMONS)

ALL ARE WELCOME

WELLNESS WEDNESDAYS ROOM 118

- EAT YOUR LUNCH HERE
- PLAY SOME GAMES
- THERAPY DOGS
- YOGA
- HAVE OUT AND CHILL!



Pathway Planning for High School

Individual Pathway Planning Goals

Grade 9 is the perfect year to build interpersonal skills, practice self-advocacy, and develop independence and resiliency.

Reflect as the year goes on – *what has worked well this year? How do you want to continue to learn and grow in Grade 10? Is this in the academic or applied pathway?*

Familiarize yourself with



Select courses in Grade 12 and work backwards until your Grade 9 year. This will help you see the “big picture” with academic planning.

Grade 10 is a good year to begin identifying strengths, interests, and career goals for a College, University, Workplace, or Apprenticeship pathway.

Reflect as the year goes on – *what experience(s) have I engaged in that I really enjoy... what can I see myself doing more of?*

Are you interested in a career or job in Construction or Health and Wellness?

Consider applying to SHSM! This Program is suitable for all pathways.



Grade 11 is the time to think and plan for after High School.

Explore options based on your strengths, interests, and goals. It's important to start looking at program admission requirements. Meet with Guidance to get started.

Reflect as the year goes on – *what courses do I need for my pathway destination?*

If you are thinking of an Apprenticeship, consider applying to OYAP in Grade 11. Students committed to their trade pathway can apply to Accelerated OYAP which begins in semester 2 of Grade 12.



Grade 12 requires a plan for leaving Clarke.

Narrow down your options for what you would like to do next year and ensure you know how to apply; seek support; accept offers of admission and begin the next part of your journey! Have a Plan A and Plan B to support your goals.

Reflect as the year goes on – *have I met all the OSSD requirements for graduation?*

Book post-secondary tours, attend open houses and information sessions to learn about your options for applying to College & University.





Ontario Secondary School Diploma Requirements

If you started Grade 9 in or before Fall 2023, you need the following to get your OSSD.

	Grade 9	Grade 10	Grade 11	Grade 12
Compulsory Courses + Group Courses (19 in total)	English Mathematics French Geography Science	English Mathematics Civics & Careers History Science	English Mathematics	English
	Technology (Grade 9 or 10) The Arts (Grade 9,10,11 or 12) Health & Physical Education (Grade 9,10,11)			
Group Courses (3 in total, one in each group)	<p>Group 1: English or French as a Second Language; Native Language; Classical or International Language; Social Sciences & Humanities; Canadian & World Studies; Guidance & Career Education; Cooperative Education.</p> <p>Group 2: Health and Physical Education; the Arts; Business Studies; French as a Second Language; Coop.</p> <p>Group 3: Science (Grade 11 or 12); Technological Education; French as a Second Language; Computer Studies; Cooperative Education.</p>			
Elective Courses (11 in total)	Students in Grade 9 choose 1 optional course of interest.	Students in Grade 10 choose 3 optional courses of interest.	Students in Grade 11 choose 6 optional courses based on the prerequisites of college, university, and trade programs.	Students in Grade 12 choose 7 optional courses as a continual prerequisite for post-secondary study. A spare may be selected upon Guidance review and discussion. University Requirements: 6 Grade 12 University (U) or Mixed (M) level courses + any program prerequisites. College Requirements: Grade 11 & 12 College (C), University (U), or Mixed (M) level courses + any program prerequisites.
eLearning Courses	Students are required to earn 2 online learning credits to graduate from High School. To opt out of eLearning, the completion of the KPR Opt-Out Form needs to be complete and submitted to the Main Office. It is recommended that students complete and submit this Form in the second semester of Grade 12.			
Ontario Secondary School Literacy Test (OSSLT)	The OSSLT is administered annually to Grade 10 student's province-wide to determine proficiency in reading and writing. The OSSLT is approximately two and a half hours in length and the evaluation is based on pass or fail. Students who have not been successful may take the Ontario Secondary School Literacy Course (OSSLC) . Upon successful completion of either the OSSLC or OSSLT results in the attainment of this OSSD requirement.			
Community Service	Students are required to document and complete 40 hours of Community Volunteer Service. Community involvement activities may take place in a variety of settings outside of school hours. Students may not fulfill the requirement through activities that are counted towards a credit (cooperative education), a paid job, or by assuming duties normally performed by a paid employee. Students are encouraged to visit the Guidance Office for further information about ineligible and eligible activities, as well as the forms required for recording participation.			



Ontario Secondary School Diploma Requirements

If you started Grade 9 in fall of 2024 and after, you need the following to get your OSSD.

	Grade 9	Grade 10	Grade 11	Grade 12
Compulsory Courses (17 in total)	English Mathematics French Geography Science	English Mathematics Civics & Careers History Science	English Mathematics	English
	Technology (Grade 9 or 10) The Arts (Grade 9,10,11 or 12) Health & Physical Education (Grade 9,10,11 or 12)			
STEM - related course group (included as a compulsory credit)	<p>Students must complete 1 from the following STEM group:</p> <ul style="list-style-type: none"> 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) 			
Elective Courses (13 in total)	Students in Grade 9 choose 1 optional course of interest.	Students in Grade 10 choose 3 optional courses of interest.	Students in Grade 11 choose 6 optional courses based on the prerequisites of college, university, and trade programs.	<p>Students in Grade 12 choose 7 optional courses as a continual prerequisite for post-secondary study. A spare may be selected upon Guidance review and discussion.</p> <p>University Requirements: 6 Grade 12 University (U) or Mixed (M) level courses + any program prerequisites.</p> <p>College Requirements: Grade 11 & 12 College (C), University (U), or Mixed (M) level courses + any program prerequisites.</p>
eLearning Courses	Students are required to earn 2 online learning credits to graduate from High School. To opt out of eLearning, the completion of the KPR Opt-Out Form needs to be complete and submitted to the Main Office. It is recommended that students complete and submit this Form in the second semester of Grade 12.			
Ontario Secondary School Literacy Test (OSSLT)	The OSSLT is administered annually to Grade 10 student's province-wide to determine proficiency in reading and writing. The OSSLT is approximately two and a half hours in length and the evaluation is based on pass or fail. Students who have not been successful may take the Ontario Secondary School Literacy Course (OSSLC) . Upon successful completion of either the OSSLC or OSSLT results in the attainment of this OSSD requirement.			
Financial Literacy Test	Starting in September 2025, you must earn a new financial literacy graduation requirement as part of your compulsory Grade 10 mathematics course. You will need to achieve a mark of 70% or higher to pass this new requirement and earn your high school diploma.			

Community Service	Students are required to document and complete 40 hours of Community Volunteer Service. Community involvement activities may take place in a variety of settings outside of school hours. Students may not fulfill the requirement through activities that are counted towards a credit (cooperative education), a paid job, or by assuming duties normally performed by a paid employee. Students are encouraged to visit the Guidance Office for further information about ineligible and eligible activities, as well as the forms required for recording participation.	
Examples of Eligible Activities:	Examples of Ineligible Activities:	
<ul style="list-style-type: none"> ✓ VOLUNTEERING for organizations or service clubs such as Big Brothers & Sisters, United Way, Rotary Club, Durham Horticultural Society, the Art Gallery, West Grey Durham Lions Club, etc. ✓ PARTICIPATING or OFFERING ASSISTANCE in activities such as walk-a-thons, food banks, environmental projects (Earth Day clean-up, flower or tree planting, recycling programs), community festivals and fun fairs, blood donation, coaching with sports teams, summer camps or tournaments, etc. ✓ HELPING IN YOUR SCHOOL with activities such as morning announcements, tutoring, coaching sports teams, scorekeeping tournaments, canvassing for Terry Fox, being a tour guide for Parents Night, helping with school fun fairs and leadership events, etc. ✓ HELPING INDIVIDUALS IN NEED for example, assisting seniors or individuals with disabilities by helping them with grocery shopping, shoveling snow, attending hospital visits, being a companion for reading or bowling nights, etc. 	<ul style="list-style-type: none"> ✗ VOLUNTEERING AT A PLACE OF BUSINESS or PERFORMING THE DUTIES OF AN OTHERWISE PAID WORKER (i.e. performing odd jobs like maintenance, cleaning) ✗ DUTIES PERFORMED IN THE HOME OR FOR A RELATIVE ✗ DUTIES WHICH INVOLVE THE OPERATION OF MOTOR VEHICLES OR POWER TOOLS (i.e. lawnmowers, snow blowers) ✗ COURT ORDERED PROGRAMS ✗ BABYSITTING 	



Community Service Reminders

Join our **Edsby** Group



Community Involvement Opportunities

Check out the Volunteer Opportunities **Bulletin Board** outside of Guidance.

Check out Durham Volunteer website at: <https://durham.cioc.ca/volunteer/student.asp>

**** If you have any questions regarding accumulation of community service hours please speak to Guidance or the Principal ****



Course Types and Pathways

De-streamed “W”

Learn concepts and skills designed to prepare for further study in the subject area

- Grade 9 courses designed to ensure all students have access to the necessary skills moving into Grade 10

Open “O”

Learn concepts and skills designed to prepare for further study in the subject area

- Appropriate for all learners- Optional courses in Grade 9 offered as “Open” courses

Locally Developed “L”

Students have been assessed as working three grades or more below grade level)

- Students learn essential concepts with practical application to build life-skills within the subject area

Academic “D”

Learn essential concepts of a subject and explore related materials

- Emphasis on theory and abstract thinking as basis of future learning- Practical applications as appropriate

Applied “P”

Learn essential concept of a subject

- Develop knowledge and skills through practical application and concrete examples

University “U”

These courses are designed to prepare students for university.

- Emphasis on theoretical knowledge and the development of critical thinking, research, and analytical skills

College “C”

These courses are designed to prepare students for college.

- Emphasis on practical and applied learning, focused on skills and knowledge that can be applied directly in the workforce or college program.

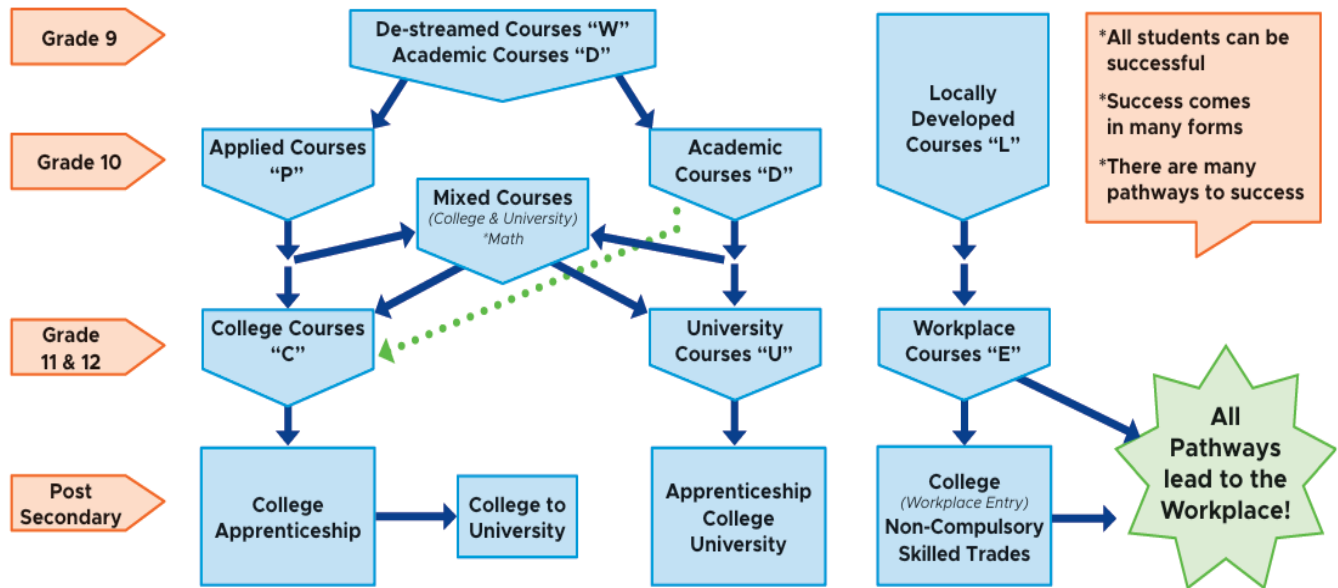
Workplace “E”

These courses are designed to prepare students for university.

- Emphasize on theoretical knowledge and the development of critical thinking, research, and analytical skills

Remember...

Students can change course types and not all courses need to be the same pathway. Take the courses that best suit your interests, abilities and aspirations!



Ontario Colleges

<https://ontariocolleges.ca>

Did you know that you can pursue a college education from any high school pathway? There are diploma and degree programs at many Ontario colleges, as well as college programs designed specifically for students who graduate with the majority of their courses in the Workplace pathway. Explore Ontario's 25 colleges - including 2400 diverse program offerings, how to apply and the answers to frequently asked questions on this site!



Skilled Trades Programs

<https://ontariocolleges.ca/en/apply/skilled-trades>

With over 150 designated skilled trades, a college program is a great place to start working toward your career. You will learn from experienced tradespeople with a network of industry connections that can lead to apprenticeships and jobs. Many college trades programs also combine apprenticeship training or co-ops right into the diploma programs.



Pathways to Apprenticeship Skills Ontario

<https://oyapkrdsb.ca>

Did you know that there is an opportunity to 'earn while you learn', by receiving training from a Master Tradesperson while on the job. You can become certified after you complete trade-school training and an exam.

You can also begin apprenticeship training while in high school - see www.oyap.ca for more information.



Ontario Universities

<https://www.ontariouniversitiesinfo.ca/>

Explore University programs at Ontario's Universities - including admission requirements, campus information, how to apply and how to finance your education.

Don't miss the section on Collaborative University and College Programs - there are lots of postsecondary pathways that combine diploma and degree programs!





Course Calendar

Course Code Designations (last letter)

W = De-streamed **D** = Academic **L** = Locally Developed **P** = Applied **v** = ELEARN
M = University/College **U** = University **E** = Workplace **C** = College **O** = Open

Grade 9 Courses

Compulsory

SUBJECT	DE-STREAMED	LOCALLY DEVELOPED
English	ENL1W	ENG1L
Math	MTH1W	MAT1L
Science	SNC1W	SNC1L
Geography	CGC1W	
French	FSF1D	NOTE: French is using the Academic “D” course code but is taught at the De-streamed “W” level, building upon Grade 7+8 learning.

NOTE:

In situations where a student is unable to meet the expectations of the De-streamed curriculum, Locally Developed courses are an option. This pathway is guided by specific criteria and will be discussed at your transition meeting.

Upon Principal approval, students can be exempt from French for the substitution of the Learning Strategies course.

SUBJECT	OPEN
Learning Strategies 1: Skills for Success in Secondary School	GLS1O

Electives

SUBJECT	OPEN
Building the Entrepreneurial Mindset	BEM1O
Dance	ATC1O
Healthy Active Living Education	PPL1O
Individual & Family Living	HIF1O
Expressions of First Nations, Metis and Inuit Cultures Integrated Arts – drama, music, visual arts, photography	NAC1O

Music – Instrumental / Guitar	AMU10
Technology in the Skilled Trades – Construction	TAS10
Visual Arts	AVI10

Grade 9 Course Descriptions

AMU10 Music

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

CREDIT: 1 **TYPE:** Open **GRADE:** 9

ATC10 Dance

This course gives students the opportunity to explore their technical and compositional skills by applying the elements of dance and the tools of composition in a variety of performance situations. Students will generate movement through structured and unstructured improvisation, demonstrate an understanding of safe practices about themselves and others in the dance environment, and identify the function and significance of dance within the global community.

CREDIT: 1 **TYPE:** Open **GRADE:** 9

AVI10 Visual Arts

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

COURSE NOTE: Some art supplies will be available in class. A list of additional recommended supplies will be provided for purchase by the student.

CREDIT: 1 **TYPE:** Open **GRADE:** 9

BEM10 Building the Entrepreneurial Mindset

In this course, students will learn what makes an entrepreneur thrive and the skills required to succeed in today's business environment. Students will begin to develop their own entrepreneurial mindset, and learn why it's important to take initiative, adapt to change, find creative solutions, and understand the financial considerations of entrepreneurship. This hands-on course will use business software and applications to help students plan and develop their entrepreneurial ideas and learn how to present them to a target audience. Throughout the course, students will enhance their communications skills as well as develop and refine their project management skills, including goal setting, time management, and networking.

CREDIT: 1 **TYPE:** Open **GRADE:** 9

CGC1W Geography of Canada

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

CREDIT: 1 **TYPE:** De-streamed **GRADE:** 9

ENL1W English

This course enables students to continue to develop and consolidate the foundational knowledge and skills that they need for reading, writing, and oral and visual communication. Throughout the course, students will continue to enhance their media literacy and critical literacy skills, and to develop and apply transferable skills, including digital literacy. Students will also make connections to their lived experiences and to society and increase their understanding of the importance of language and literacy across the curriculum.

CREDIT: 1 **TYPE:** De-streamed **GRADE:** 9

ENG1L English

This course prepares students for Grade 10 Locally Developed English (ENG2L). It provides foundational literacy and communication skills to students for success in their daily lives and in the workplace. The course is organized by strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students reflect regularly upon their growth in these areas.

CREDIT: 1 **TYPE:** Locally Developed **GRADE:** 9

FSF1D Core French

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

CREDIT: 1 **TYPE:** Academic **GRADE:** 9

GLS1O Learning Strategies 1: Skills for Success in Secondary School

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

CREDIT: 1 **TYPE:** Open **GRADE:** 9

HIF1O Individual & Family Living

This course explores, within the context of families, some of the fundamental challenges people face: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible members of society. Students will explore adolescent development and will have opportunities to develop interpersonal, decision-making, and practical skills related to daily life. They

will learn about the diverse ways in which family's function in Canada and will use research skills as they explore topics related to individual and family needs and resources.

CREDIT: 1

TYPE: Open

GRADE: 9

MAT1L Mathematics

This course provides students who have experienced significant difficulties in previous Mathematics courses an opportunity to obtain sufficient background and skill development to prepare them for the Grade 10 Locally Developed course or for entry to MFM1P1. Whenever possible, ideas will be presented in a real-life context, providing students with the opportunity to explore, organize interpret, and use mathematical models to solve problems. Technology and manipulative materials will be used wherever appropriate. Assessment and evaluation will be done using a wide variety of strategies. This will count as one of the three compulsory mathematics credits.

CREDIT: 1

TYPE: Locally Developed

GRADE: 9

MTH1W Mathematics

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

CREDIT: 1

TYPE: De-streamed

GRADE: 9

NAC1O Expressions of First Nations, Metis and Inuit Cultures- Integrated Arts

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

CREDIT: 1

TYPE: Open

GRADE: 9

PPL1O Healthy Active Living Education

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

COURSE NOTE: Requirement of t-shirt, shorts/track pants, and running shoes. Clarke Phys Ed t-shirt available for purchase.

CREDIT: 1

TYPE: Open

GRADE: 9

SNC1L1 Science

This course prepares students for Grade 10 Locally developed Science (SNC2L) and/or Grade 11 Environmental Science (SVN3E). This course reinforces and strengthens science-related knowledge and skills, including scientific inquiry, critical thinking and the relationship between science, society and the environment. Students explore a range of topics including Science in Daily Life, Properties of Common Materials, Staying Alive: Life Sustaining Processes, and Electrical Circuits.

CREDIT: 1 **TYPE:** Locally Developed **GRADE:** 9

SNC1W Science

This course enables students to develop their understanding of concepts related to biology, chemistry, physics, and earth and space science, and to relate science to technology, society, and the environment. Throughout the course, students will develop and refine their STEM skills as they use scientific research, scientific experimentation, and engineering design processes to investigate concepts and apply their knowledge in situations that are relevant to their lives and communities. Students will continue to develop transferable skills as they become scientifically literate global citizens.

CREDIT: 1 **TYPE:** De-streamed **GRADE:** 9

TAS10 Technology and the Skilled Trades

This hands-on course enables students to further explore the engineering design process and develop other technological knowledge and skills introduced in earlier grades. Students will design and safely create prototypes, products, and/or services, working with tools and technologies from various industries. As students develop their projects to address real-life problems, they will apply technological concepts such as precision measurement, as well as health and safety standards. Students will begin to explore job skills programs and education and training pathways, including skilled trades, which can lead to a variety of careers.

CREDIT: 1 **TYPE:** Open **GRADE:** 9

Grade 10 Courses

Compulsory

SUBJECT	ACADEMIC	APPLIED	LOCALLY DEVELOPED	OPEN
English	ENG2D	ENG2P	ENG2L	
Math	MPM2D	MFM2P	MAT2L	
Science	SNC2D	SNC2P	SVN3E	
History	CHC2D	CHC2P	CHC2L	
Civics & Careers				CHV2O5 / GLC2O5

**NOTE: Students who take SNC1L will receive their second science compulsory credit through SVN3E.
This is also an Elective course for all interested students.**

Electives

SUBJECT	OPEN
Communications Technology - Digital Imagery and Web Design	TGJ2O
Environmental Science	WORKPLACE SVN3E
Food and Nutrition	HFN2O
French	ACADEMIC FSF2D
Healthy Active Living	PPL2O
Music for Creating	AMC2O
Personal Fitness	PAF2O
Technology and the Skilled Trades: Custom Woodworking	TAS2O
Technology and the Skilled Trades: Green Industries	THJ2O
Visual Arts	AVI2O
Visual Arts and Crafts	AWA2O
Visual Arts – Photography	AWQ2O

Grade 10 Course Descriptions

AMC20 Music for Creating

This is a course designed for students who wish to explore the creation and performance of music at a level consistent with previous experience. Students will develop their understanding of musical conventions, practices, and terminology and apply the elements of music in a range of project-based assignments. Students will have the hands-on experience of using computers for creative exploration, composition, and performance. Basic performance skills on a variety of instruments will be taught. Independently and collaboratively, students will use the creative and critical analysis processes to plan, produce, present and market musical productions. Prior musical experience is not required.

CREDIT: 1 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

AVI20 Visual Arts

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.

COURSE NOTE: Some art supplies will be available in class. A list of additional recommended supplies will be provided for purchase by the student.

CREDIT: 1 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

AWA20 Visual Arts and Crafts

This course focuses on the skills and knowledge needed to nurture creativity and promote the artistic and cultural ties that bind us as learners in a classroom, as a community, and as a people. The course is designed to develop student expression and creative skills to create individual works using a variety of crafts. Students will also develop an understanding of historical significance of crafts.

CREDIT: 1 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

AWQ20 Visual Arts Photography

This course focuses on building student interest, skill and creativity within a trusting, inspiring, and safe environment. Students will learn photographic conventions, techniques, and terminology through the use of responsible practices with tradition and emerging technologies. Students will use the critical analysis process to reflect on and interpret a variety of photographic images. This course will explore personal histories in a larger context of meaning and will allow students the opportunity to explore the work of a variety of artists who will aid in their understanding of how art and photographs reflect the cultural values and societies in which they are created.

CREDIT: 1 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

CHC2D Canadian History since World War One

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.

CREDIT: 1 **TYPE:** Academic **GRADE:** 10 **PREREQUISITE:** None

CHC2L Canadian History since World War One

This course focuses on the connections between the student and key people, events, and themes in Canadian history from World War I to the present. Students prepare for the Grades 11 and 12 Workplace Preparation history courses through the development and extension of historical literacy and inquiry 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 can extend analytical skills with a focus on identifying and interpreting events and perspectives and making connections. Students practice reading, writing, visual, and oral literacy skills, and mathematical literacy skills to identify and communicate ideas in a variety of forms.

CREDIT: 1 **TYPE:** Locally Developed **GRADE:** 10 **PREREQUISITE:** None

CHC2P Canadian History since World War One

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

CREDIT: 1 **TYPE:** Applied **GRADE:** 10 **PREREQUISITE:** None

CHV2O5 Civics

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.

COURSE NOTE: This is a half-credit course that is taken along with GLC2O5, Career Studies.

CREDIT: 0.5 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

ENG2D English

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

CREDIT: 1 **TYPE:** Academic **GRADE:** 10 **PREREQUISITE:** ENG1D1 or ENG1P1

ENG2L English

In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, in the English Grade 11 Workplace Preparation course (ENG3E), or in the English Contemporary Aboriginal Voices, Grade 11 Workplace Preparation course (NBE3E). The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and in using language

clearly and accurately in a variety of authentic contexts. Students reflect regularly on their growth in these areas.

CREDIT: 1 **TYPE:** Locally Developed **GRADE:** 10 **PREREQUISITE:** ENG1L

ENG2P English

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

CREDIT: 1 **TYPE:** Applied **GRADE:** 10 **PREREQUISITE:** ENG1P or ENG1D

FSF2D Core French

This course enables students to increase their knowledge of the French language, further develop their language skills, and deepen their understanding and appreciation of francophone culture around the world. Exploring a variety of themes, students will develop and apply critical thinking skills in discussion, in their analysis and interpretation of texts, and in their own writing.

CREDIT: 1 **TYPE:** Academic **GRADE:** 10 **PREREQUISITE:** FSF1D or FSF1P

GLC2O5 Career Studies

This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.

COURSE NOTE: This is a half-credit course that is taken along with CHV2O5, Civics.

CREDIT: 0.5 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

HFN2O Food and Nutrition

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 food and nutrition.

CREDIT: 1 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

MAT2L Mathematics

This Grade 10 course is designed to allow students to solidify and extend their understanding of, and confidence in using, the concepts developed in MAT1L so that they are well prepared for success in the Mathematics Grade 11 Workplace Preparation course (MEL3E) or the Mathematics Grade 12 Workplace Preparation Course (MEL4E). In the Grade 10 course, students are asked to demonstrate a greater depth of understanding and level of complexity, in contexts that move them from their immediate personal environment to the larger community.

CREDIT: 1 **TYPE:** Locally Developed **GRADE:** 10 **PREREQUISITE:** None

MPM2D Principles of Mathematics

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

CREDIT: 1 **TYPE:** Academic **GRADE:** 10 **PREREQUISITE:** MTH1W1

MFM2P Foundations of Mathematics

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

CREDIT: 1 **TYPE:** Applied **GRADE:** 10 **PREREQUISITE:** MFM1P1 or MTH1W1

PAF2O Personal Fitness

This course enables students to focus on fitness-based activities such as cardiovascular, muscular strength and muscular endurance training. Students will have the opportunity to participate in a variety of fitness activities such as circuit training, interval training, weightlifting, yoga, and running, with a focus on goal setting and personal growth.

COURSE NOTE: Requirement of light grey t-shirt, shorts/track pants, and running shoes.

CREDIT: 1 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

PPL2O Healthy Active Living Education

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.

COURSE NOTE: Requirement of t-shirt, shorts/track pants, and running shoes. Clarke Phys Ed t-shirt available for purchase.

CREDIT: 1 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

SNC2D Science

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

CREDIT: 1 **TYPE:** Academic **GRADE:** 10 **PREREQUISITE:** SNC1W1

SNC2P Science

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.

CREDIT: 1 **TYPE:** Applied **GRADE:** 10 **PREREQUISITE:** SNC1P1 or SNC1W1

SVN3E Environmental Science

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.

CREDIT: 1 **TYPE:** Workplace **GRADE:** 11 **PREREQUISITE:** SNC1L1

TAS2O Technology and the Skilled Trades – Custom Woodworking

This hands-on course enables students to apply the engineering design process and other technological knowledge and skills introduced in earlier grades. Students will design and safely create prototypes, products, and/or services, working with tools and resources from various industries. As students develop their projects to address real-life problems, they will apply technological concepts such as quality control, and health and safety standards. Students explore opportunities for job skills programs and education and training pathways, including skilled trades, that can lead to a variety of careers.

CREDIT: 1 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

TGJ2O Communications Technology

This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/video and movie production, radio and audio production, print and graphic communications, photography, and interactive new media and animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology and will explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields. This course is available to grade 9 students.

CREDIT: 1 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

THJ2O Technology and the Skilled Trades – Green Industries

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

CREDIT: 1 **TYPE:** Open **GRADE:** 10 **PREREQUISITE:** None

Grade 11 Courses

Compulsory

SUBJECT	UNIVERSITY	COLLEGE	MIXED U/C	WORKPLACE
English	NBE3U	NBE3C		NBE3E
Math	MCR3U	MBF3C	MCF3M	MEL3E

Electives

SUBJECT	UNIVERSITY	COLLEGE	MIXED U/C	WORKPLACE	OPEN
Business: Entrepreneurship		vBDI3C			
Business: Marketing Goods, Services, Events		vBMI3C			
Biology	SBI3U	SBI3C			
Canadian Law			CLU3M		
Chemistry	SCH3U				
Communications Technology: Photography and Digital Imaging			TGP3M		
Construction Technology		TCJ3C1 TCJ3C2		TCJ3E1	
Co-op: Single credit Peer Helping					COP4XP
Co-op: Double credit (Half Day)					COP4XD
Co-op: Four credit (Full Day)					COP4X4
Co-op: OYAP Fast					OYA3F2 OYA3F4

Environmental Science				SVN3E	
Food & Culture			HFC3M	HFC3E	
French	FSF3U				
Healthy Active Living					PPL30
Music - Electronic					AMD30
Music			AMU3M		
Physics	SPH3U				
Personal Fitness					PAF30
Visual Arts			AVI3M		
Visual Arts & Crafts					AWA30
Worldviews & Aspirations of FNMI Communities		NBV3C		NBV3E	

Grade 11 Course Descriptions

AMD30 Music - Electronic

This course utilizes technology to understand, create, and record music. Students will be exposed to engineering and recording and will gain exposure to music software, notation programs, sequencing, marketing, and issues of copyright. Students will develop knowledge and skills as they compose, produce, and create music projects using a variety of electronic music resources including samplers, keyboards, and computer software and applications. Projects may include original songs, remixes, film scoring, and deejaying. Students will also develop an awareness of related environmental and societal issues. They will explore college and university programs and career opportunities in various music and media fields. The final project will involve the class producing and hosting a concert to showcase their musical compositions and live performances.

CREDIT: 1 **TYPE:** University / College **GRADE:** 11 **PREREQUISITE:** AMS201 or AMU201

AMU3M Music

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.

CREDIT: 1 **TYPE:** University / College **GRADE:** 11 **PREREQUISITE:** AMU2O1 or AMS2O1

AVI3M Visual Arts

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

COURSE NOTE: Some art supplies may need to be purchased by the student.

CREDIT: 1 **TYPE:** University / College **GRADE:** 11 **PREREQUISITE:** AVI1O1 or AVI2O1

AWA3O Visual Arts - Crafts

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.

supplies may need to be purchased by the student.

COURSE NOTE: Some art

CREDIT: 1 **TYPE:** Open **GRADE:** 11 **PREREQUISITE:** None

vBDI3C* Entrepreneurship: The Venture (*eLearning course taught by Clarke Teacher)

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

CREDIT: 1 **TYPE:** College **GRADE:** 11 **PREREQUISITE:** None

vBMI3C* Marketing: Goods, Services, Events (*eLearning course taught by Clarke Teacher)

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

CREDIT: 1 **TYPE:** College **GRADE:** 11 **PREREQUISITE:** None

CLU3M1 Understanding Canadian Law in Everyday Life

This course explores Canadian law with a focus on legal issues that are relevant to people's everyday lives. Students will investigate fundamental legal concepts and processes to gain a practical understanding of Canada's legal system, including the criminal justice system. Students will use critical-thinking, inquiry, and communication skills to develop informed opinions on legal issues and apply this knowledge in a variety of ways and settings, including case analysis, legal research projects, mock trials, and debates.

COURSE NOTE: Strong reading and writing skills are necessary for this course.

CREDIT: 1 **TYPE:** University/College **GRADE:** 11 **PREREQUISITE:** CHC2D1 or CHC2P1

CO-OP: See separate section at the end of the course calendar for information on Co-operative Education (Co-op) programs available to Grade 11 and Grade 12 students.

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.

CREDIT: 2 or 4 **TYPE:** Open **GRADE:** 11 and/or 12 **PREREQUISITE:** None

COP4X4: Co-op 4 Credit/Full day

COP4XD: Co-op 2 Credit/Half Day

COP4XP: Co-op 1 Credit/Single period Peer Helping

OYA3F2: Co-op OYAP Fast/Half Day

OYA3F4: Co-op OYAP Fast/Full Day

FSF3U Core French

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.

CREDIT: 1 **TYPE:** University **GRADE:** 11 **PREREQUISITE:** FSF2D1

HFC3E Food and Culture

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

CREDIT: 1 **TYPE:** Workplace **GRADE:** 11 **PREREQUISITE:** None

HFC3M Food and Culture

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.

CREDIT: 1 **TYPE:** University / College Preparation **GRADE:** 11 **PREREQUISITE:** None

MBF3C Foundations for College Mathematics

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

evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

CREDIT: 1 **TYPE:** College **GRADE:** 11 **PREREQUISITE:** MFM2P1 or MPM2D1

MCF3M Functions and Applications

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 applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

COURSE NOTE: This course can be used as a pre-requisite for MDM4U1, MCT4C1 or MAP4C1.

CREDIT: 1 **TYPE:** University/College **GRADE:** 11 **PREREQUISITE:** MPM2D1 or MFM2P1

MCR3U Functions

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

CREDIT: 1 **TYPE:** University **GRADE:** 11 **PREREQUISITE:** MPM2D1

MEL3E Mathematics for Work and Everyday Life

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.

COURSE NOTE: This course is alternated every-other year with MEL4E. These two math courses can be taken in either order.

CREDIT: 1 **TYPE:** Workplace **GRADE:** 11 **PREREQUISITE:** Grade 10 OR 11 Math, any level

NBE3C English, Understanding Contemporary First Nations, Métis and Inuit Voices

This course explores themes, forms, and styles 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. 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.

CREDIT: 1 **TYPE:** College **GRADE:** 11 **PREREQUISITE:** ENG2P1 or ENG2D1

NBE3E English, Understanding Contemporary First Nations, Métis and Inuit Voices

This course explores themes, forms, and stylistic elements of literary, informational, graphic, oral, cultural, and media texts emerging from First Nations, Métis, and Inuit cultures in Canada, as well as some texts that relate to those cultures. To better understand contemporary texts, students will explore

connections between traditional and contemporary text forms and cultural and community aspects of identity, relationships, and self-determination, sovereignty or self-governance. Students will also create oral, written, and media texts focusing on the development of literacy, communication, and critical thinking skills necessary for success in the workplace and daily life.

CREDIT: 1 **TYPE:** Workplace **GRADE:** 11 **PREREQUISITE:** ENG2D1 or ENG2P1 or ENG2L1

NBE3U English, Understanding Contemporary First Nations, Métis and Inuit Voices

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

CREDIT: 1 **TYPE:** University **GRADE:** 11 **PREREQUISITE:** ENG2D1

NBV3C World Views and Aspirations of First Nations, Métis and Inuit Communities in Canada

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 vi 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.

CREDIT: 1 **TYPE:** College **GRADE:** 11 **PREREQUISITE:** CHC2P1 or CHC2D1 or NAC2O1

NBV3E World Views and Aspirations of First Nations, Métis and Inuit Communities in Canada

This course focuses on the diverse beliefs, values, and aspirations between First Nations, Métis, and Inuit peoples of Canada. Students will examine issues of identity facing Aboriginal individuals and communities in connection to changing relationships with the land, nature, one another and Canada. By examining their own worldview and investigating factors that influence perspectives over time, students will develop their understanding of how traditional and contemporary beliefs and values influence present and future aspirations of Aboriginal peoples.

CREDIT: 1 **TYPE:** Workplace **GRADE:** 11 **PREREQUISITE:** CHC2P1 or CHC2D1 or CHC2L1 or NAC2O1

OYA3F OYAP Fast

The Focused Apprenticeship Skills Training (FAST) Ontario Youth Apprenticeship Program (OYAP) is an accelerated stream that allows students to participate in more apprenticeship learning through additional co-operative education credits while completing their OSSD.

COURSE NOTE: For more information about the requirements of this program, please see details below.

CREDIT: 2 or 4 + **TYPE:** Open **GRADE:** 11 **PREREQUISITE:** 14 OSSD credits

PAF30 Personal and Fitness Activities

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students' interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills and will be given opportunities to practice goal setting, decision-making, coping, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, and personal safety. Improved physical fitness through aerobic and weight training is the main objective of this course.

COURSE NOTE: Requirement of t-shirt, shorts/track pants, and running shoes. Clarke Phys Ed t-shirt available for purchase.

CREDIT: 1 **TYPE:** Open **GRADE:** 11 **PREREQUISITE:** None

PPL30 Healthy Active Living Education

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

CREDIT: 1 **TYPE:** Open **GRADE:** 11 **PREREQUISITE:** None

SBI3U Biology

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.

CREDIT: 1 **TYPE:** University **GRADE:** 11 **PREREQUISITE:** SNC2D1

SBI3C Biology

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.

CREDIT: 1 **TYPE:** College **GRADE:** 11 **PREREQUISITE:** SNC2P1

SCH3U Chemistry

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.

CREDIT: 1 **TYPE:** University **GRADE:** 11 **PREREQUISITE:** SNC2D1

SPH3U Physics

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

CREDIT: 1 **TYPE:** University **GRADE:** 11 **PREREQUISITE:** SNC2D1

SVN3E Environmental Science

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.

CREDIT: 1 **TYPE:** Workplace **GRADE:** 11 **PREREQUISITE:** SNC1L1 or SNC1W1
SNC2L1 or SNC2D1/SNC2P1

TCJ3C1 Construction Technology, Single Credit

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 will explore career opportunities in the field.

COURSE NOTE: As of September 2016, CSA safety footwear is mandatory in all Grade 9/10/11/12 construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials. Recommended Background: TCJ2O1. This course is a *single period*.

CREDIT: 1 **TYPE:** College **GRADE:** 11 **PREREQUISITE:** None

TCJ3C2 Construction Technology, Two Credit / Dual Credit

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 will explore career opportunities in the field.

COURSE NOTE: As of September 2016, CSA safety footwear is mandatory in all Grade 9/10/11/12 construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials. Recommended Background: TCJ2O1.

CREDIT: 2 **TYPE:** College **GRADE:** 11 **PREREQUISITE:** None

TCJ3E1 Construction Technology, Single Credit

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

COURSE NOTE: As of September 2016, CSA safety footwear is mandatory in all Grade 9/10/11/12 construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials.

CREDIT: 1 **TYPE:** Workplace **GRADE:** 11 **PREREQUISITE:** None

TGP3M Communications Technology: Photography and Digital Imaging

This course enables students to develop their knowledge and skills in Communications Technology with a focus on photography and photo editing techniques. Students will be introduced to the history of photography as well as the influence on society. They will learn about the digital and traditional camera's hardware and how technology affects the photographs. The technical and creative aspects of exposure and composition will be explored by allowing students to create exemplary samples of their photographic artistry. Students will use the critical analysis process when evaluating their own work and the work of others.

CREDIT: 1**TYPE: University/College****GRADE: 11****PREREQUISITE: None**

Grade 12 Courses

Compulsory

SUBJECT	UNIVERSITY	COLLEGE	MIXED U/C	WORKPLACE
English	ENG4U	ENG4C		ENG4E

Electives

SUBJECT	UNIVERSITY	COLLEGE	MIXED U/C	WORKPLACE	OPEN
Biology	SBI4U	SBI4C			
Business: International			vBBB4M		
Business: Leadership			vBOH4M		
Construction		TCJ4C1 TCJ4C2		TCJ4E1	
Chemistry	SCH4U				
Communications Technology: Photography and Digital Imaging			TGP4M		
Contemporary Indigenous Issues & Perspectives			NDW4M		
Co-op: Single credit Peer Helping					COP4XP
Co-op: Double credit (Half Day)					COP4XD
Co-op: Four credit (Full Day)					COP4X4
Co-op: Four credit (OYAP)					COP4XY
Co-op: OYAP Fast					OYA4F2 OYA4F4 OYA4FD

French	FSF4U				
Healthy Active Living					PPL4O
Introduction to Kinesiology	PSK4U				
Math: Advanced Functions	MHF4U				
Math: Calculus & Vectors	MCV4U				
Math: Foundations of College Mathematics		MAP4C			
Math: Mathematics for Everyday Life & Workplace				MEL4E	
Music			AMU4M		
Physics	SPH4U				
Personal Fitness					PAF4O
Visual Arts			AVI4M		
Visual Arts: Crafting and the World of Design					AWA4M

Grade 12 Course Descriptions

AMU4M Music

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

CREDIT: 1 **TYPE:** University / College **GRADE:** 12 **PREREQUISITE:** AMU3M1 or AMS3M1

AVI4M Visual Arts

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. **COURSE NOTE:** Some art supplies will be available in class. A list of additional recommended supplies will be provided for purchase by the student.

CREDIT: 1 **TYPE:** University / College **GRADE:** 12 **PREREQUISITE:** AVI3M1

AWA4M Visual Arts: Crafting and the World of Design

This course is an exploration of a variety of traditional and contemporary crafts. 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 have the opportunity to create useful and decorative objects while gaining an appreciation and understanding of cultural and creative diversity worldwide. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context.

CREDIT: 1 **TYPE:** University / College **GRADE:** 12 **PREREQUISITE:** AVI3M1

vBBB4M* Introduction to International Business (*eLearning course taught by Clarke Teacher)

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

CREDIT: 1 **TYPE:** University / College **GRADE:** 12 **PREREQUISITE:** None

vBOH4M* Business Leadership: Management Fundamentals (*eLearning course taught by Clarke Teacher)

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

CREDIT: 1 **TYPE:** University / College **GRADE:** 12 **PREREQUISITE:** None

CO-OP: See separate section at the end of the course calendar for information on Co-operative Education (Co-op) programs available to Grade 11 and Grade 12 students.

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.

CREDIT: 2 or 4 **TYPE:** Open **GRADE:** 11 and/or 12 **PREREQUISITE:** None

CO-OP:

COP4XY: Co-op 4 Credit/Full day Ontario Youth Apprenticeship Program (OYAP)

COP4X4: Co-op 4 Credit/Full day

COP4XD: Co-op 2 Credit/Half Day

COP4XP: Co-op 1 Credit/Single period Peer Helping

OYA4F2: Co-op OYAP Fast /Half Day

OYA4F4: Co-op OYAP Fast /Full Day

OYA4FD: Co-op OYAP Fast /Double Credit each Semester

ENG4C English

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

CREDIT: 1 **TYPE:** College **GRADE:** 12 **PREREQUISITE:** ENG3C1 or ENG3U1 or NBE3C1 or NBE3U1

ENG4E English

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

CREDIT: 1 **TYPE:** Workplace **GRADE:** 12 **PREREQUISITE:** ENG3E1 or NBE3E1

ENG4U English

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

CREDIT: 1 **TYPE:** University **GRADE:** 12 **PREREQUISITE:** ENG3U1 or NBE3U1

FSF4U Core French

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

CREDIT: 1 **TYPE:** University **GRADE:** 12 **PREREQUISITE:** FSF3U1

MAP4C Foundations for College Mathematics

This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry

and trigonometry; 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.

CREDIT: 1 **TYPE:** College **GRADE:** 12 **PREREQUISITE:** MBF3C1 or MCR3U1 or MCF3M1

MEL4E Mathematics for Work and Everyday Life

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

CREDIT: 1 **TYPE:** Workplace **GRADE:** 12 **PREREQUISITE:** MEL3E

MCV4U Calculus and Vectors

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the 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 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.

CREDIT: 1 **TYPE:** University **GRADE:** 12

COREQUISITES: If you take this course, *you must also* take MHF4U1 - Advanced Functions, University

MHF4U Advanced Functions

This 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 also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

CREDIT: 1 **TYPE:** University **GRADE:** 12 **PREREQUISITE:** MCR3U1 or MCT4C1

NDW4M Contemporary Indigenous Issues and Perspectives in a Global Context

This course examines global issues from the perspectives of Indigenous peoples. Students will explore the depth and diversity of Indigenous cultures, traditions, and knowledge. Students will consider how diverse Indigenous communities persevere despite current global environmental and economic trends, and will investigate topics such as identity, social justice, human rights and abuses, spirituality, resilience, and advocacy for change.

CREDIT: 1 **TYPE:** University / College **GRADE:** 12

PREREQUISITE: Any Grade 11 University, University/College, or College Preparation course in First Nations, Métis, and Inuit studies, Canadian and World Studies, or Social Sciences and Humanities

OLC40 Ontario Secondary School Literacy Course (OSSLC)

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.

COURSE NOTE: A student who has been eligible to write the OSSLT at least twice and who has been unsuccessful at least once is eligible to enroll in the OSSLC. A student may be permitted to take the OSSLC before he or she has had a second opportunity to take the OSSLT, if the principal determines that it is in the best educational interests of the student to do so. Under special circumstances, and at the discretion of the principal, a student who has already met the literacy requirement for graduation purposes may be eligible to take the course. A mature student may enroll directly in the OSSLC without first attempting the OSSLT.

CREDIT: 1 **TYPE:** Open **GRADE:** 12 **PREREQUISITE:** Unsuccessful in Literacy Test

OYA4F OYAP Fast

The Focused Apprenticeship Skills Training (FAST) Ontario Youth Apprenticeship Program (OYAP) is an accelerated stream that allows students to participate in more apprenticeship learning through additional co-operative education credits while completing their OSSD.

COURSE NOTE: For more information about the requirements of this program, please see details below.

CREDIT: 2 or 4 + **TYPE:** Open **GRADE:** 12 **PREREQUISITE:** 14 OSSD credits

PAF40 Personal and Fitness Activities

This course focuses on the development of a healthy lifestyle with an emphasis on physical fitness. Students will develop individual fitness plans to improve or to maintain a high level of fitness. Regular workouts will include an emphasis on weight training and cardiovascular training. This course will also focus on designing training programs for specific sport development - preseason, season and post-season training. In addition, students will be given opportunities to refine their decision-making, conflict resolution, and interpersonal skills, with a view of enhancing their mental health and their relationships with others.

CREDIT: 1 **TYPE:** Open **GRADE:** 12 **PREREQUISITE:** None

PPL40 Healthy Active Living Education

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.

COURSE NOTE: Requirement of light grey t-shirt, shorts/track pants, and running shoes.

Clarke Phys Ed t-shirt available for purchase.

CREDIT: 1 **TYPE:** Open **GRADE:** 12 **PREREQUISITE:** None

PSK4U Introduction to Kinesiology

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

CREDIT: 1 **TYPE:** University **GRADE:** 12

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

SBI4U Biology

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.

CREDIT: 1 **TYPE:** University **GRADE:** 12 **PREREQUISITE:** SBI3U1

SCH4U Chemistry

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.

CREDIT: 1 **TYPE:** University **GRADE:** 12 **PREREQUISITE:** SCH3U1

SCH4C Chemistry

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

CREDIT: 1 **TYPE:** College **GRADE:** 12 **PREREQUISITE:** SNC2D1 or SNC2P1

SPH4U Physics

This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data related to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.

CREDIT: 1 **TYPE:** University **GRADE:** 12 **PREREQUISITE:** SPH3U1

SPH4C Physics

This course enables students to deepen their understanding of the basic concepts in physics, including motion, electricity, magnetism and energy transformation. Throughout this course, students will develop their scientific investigation skills as they test laws of physics and solve both assigned and emergent problems stemming from hands-on investigations. They will also consider the impact of technological applications of physics on society and the environment.

CREDIT: 1 **TYPE:** College **GRADE:** 12 **PREREQUISITE:** SNC2P1 or SNC2D1

TCJ4C1 Construction Technology, Single credit

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.

COURSE NOTE: As of September 2016, CSA safety footwear is mandatory in all construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store.

CREDIT: 1 **TYPE:** College **GRADE:** 12 **PREREQUISITE:** TCJ3C1 or TCJ3C2

TCJ4C2 Construction Technology, Two credit / Dual Credit

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.

COURSE NOTE: As of September 2016, CSA safety footwear is mandatory in all construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials. Students enrolled in this double credit course are also enrolled in the **Dual Credit Program**. This program provides students the opportunity to take college level courses in the trades that count towards their Ontario Secondary School Diploma and postsecondary certificate, diploma, degree or a Certificate of Apprenticeship.

CREDIT: 2 **TYPE:** College **GRADE:** 12 **PREREQUISITE:** TCJ3C1 or TCJ3C2 or TCJ4C1

TCJ4E1 Construction Technology, Single credit

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

COURSE NOTE: As of September 2016, CSA safety footwear is mandatory in all construction classes. Safety glasses will be available in the class. Personal pairs of safety glasses may be purchased from the

Technology Department or from a safety supply store. Optional fees may be applied for upgrades to materials.

CREDIT: 1 **TYPE:** Workplace **GRADE:** 12 **PREREQUISITE:** TCJ3E1

TGP4M Communications Technology: Photography and Digital Imaging

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

CREDIT: 1 **TYPE:** University / College **GRADE:** 12 **PREREQUISITE:** TGP3M1 or TGJ3M1



Co-operative Education

Cooperative Education (Co-op) is an experiential learning opportunity for students in Grade 11 and 12 to explore their career choice, to develop employability skills, and to earn valuable work experience.

Cooperative Education begins with students selecting Co-op during the course selection process. This is followed by a Co-op Application Form that students complete for their placement options. When students are ready to begin co-op, pre-placement activities occur during the first week of school, followed by integration activities that run at various times throughout the semester. Students earn their cooperative education credits by demonstrating achievement of placement expectations that reflect current workplace practices and standards.

NOTE: Students may do co-op more than once.

Students who are enrolled in a skilled trades co-op placement are considered OYAP candidates. For those who are committed to their skilled trade can apply for the Accelerated OYAP Program or OYAP Fast.

Students can participate in any of the following Cooperative Education Placements:

COP4XP CO-OP – 1 credit Peer Helping

This one period co-op is a Peer Helping placement in a home school classroom.

CREDIT: 1 **TYPE:** Open **GRADE:** 11 or 12

COP4XD CO-OP – 2 credit course

This half day co-op placement is selected by the student.

CREDIT: 2 **TYPE:** Open **GRADE:** 11 or 12

COP4X4 CO-OP – 4 credit course

This full day co-op placement is selected by the student.

CREDIT: 4 **TYPE:** Open **GRADE:** 11 or 12

COP4XY Accelerated OYAP – Ontario Youth Apprenticeship Program 4 credit course (full day)

Available to students in their *final* semester of Grade 12, students undergo a competitive application and interview process to be accepted into this Program. Acceptance is on condition of marks and completion of all graduation requirements (Community Involvement Hours and the OSSLT). Upon acceptance, students enter into a Registered Training Agreement with their Employer and begin accumulating their apprenticeship hours in their skilled trade co-op placement while earning their Level One training with a Training Delivery Agency (TDA).

CREDIT: 4 **TYPE:** Open **GRADE:** 12

OYA3F2 / OYA4F2 OYAP Fast (Double Credit)

OYA4F4 / OYA4F4 OYAP Fast (Four Credit)

OYA4FD OYAP Fast (Double credit each semester)

This is an accelerated stream within OYAP that will allow students to participate in more apprenticeship learning through additional co-operative education credits while completing their OSSD.

CREDIT: 2 or 4 + **TYPE:** Open **GRADE:** 11 and 12 **PREREQUISITE:** None



Focused Apprenticeship Skills Training (FAST) Ontario Youth Apprenticeship Program (OYAP)

The Focused Apprenticeship Skills Training (FAST) Ontario Youth Apprenticeship Program (OYAP) 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 Ontario Secondary School Diploma (OSSD).

To participate in FAST OYAP, students must:

- Meet the OYAP eligibility requirements:

To be eligible for OYAP, students must be 15 years or older, have **completed 14 credits toward the OSSD** and be enrolled as a part-time or full-time student in a secondary school or continuing education program. Students (and their parent(s)/guardian(s) for students under 18 years of age) must also **complete an OYAP Participant Form**. Students are considered OYAP participants once the form is submitted.

- Have signed parent/guardian consent to participate in Focused OYAP (FAST). A consent form will be sent to parents/guardians by high school Guidance Departments when students select Focused OYAP (FAST) in their course selections. Students will not be registered for the Focused OYAP (FAST) Diploma until a signed consent form is received.

Students in grades 11 and 12 will take a minimum of 8 cooperative education credits in the skilled trades* as an OYAP Participant and must take Grades 11 and 12 English to fulfill the OSSD requirements. All future apprentices are strongly encouraged to take Grade 12 Math as it is fundamental to all apprenticeship education and will be required as part of the In-school education for each trade. For students interested in pursuing an apprenticeship as an Electrician (309A, 309C, or 442A), it is also strongly recommended that they take Grade 11 university-stream Physics (SPH3U) or Grade 12 college-stream Physics (SPH4C).

***Co-op placement in a skilled trade** is contingent upon the number of seats in Co-op classes in each school and employer availability. This will vary by region and by school. For many skilled trades placements, a driver's license and access to a vehicle is required.

Completion requirements for Focused 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. This will be contingent upon the skills of the student and the willingness of an employer to sign the student as an apprentice. The school board cannot guarantee that all students who are participating in the Focused OYAP (FAST) opportunity will obtain a **Registered Training Agreement** through the Ministry of Labour, Immigration, Training and Skills Development.

Students who meet the above completion requirements and all other OSSD requirements will be awarded the Focused OYAP (FAST) seal on their OSSD, and OYAP-FAST will be listed in the Specialized Program field of the Ontario Student Transcript (OST). If a student has already been granted an OSSD, it cannot be exchanged for an OSSD with the Focused OYAP (FAST) seal.

Post Secondary Pathway Limitations and Considerations

Students interested in this program should be quite confident that they are pursuing the apprenticeship pathway for their post-secondary education and are strongly encouraged to research post-secondary options before applying to this program. Certain college and university programs might have prerequisite courses that would not be easily fulfilled due to timetable constraints when taking the Focused OYAP (FAST) program. They are encouraged to connect with their guidance counsellor to discuss their post-secondary options.

For more information about the apprenticeship pathway and the skilled trades, please visit the **Skilled Trades website**: <https://www.skilledtradesontario.ca/>



Specialist High Skills Major Program (SHSM)

SHSM is a Ministry-approved specialized program that allows students to focus their learning on a specific career sector while meeting the requirements for the Ontario Secondary School Diploma (OSSD).

SHSM Sectors

Clarke High School is proud to offer SHSM in **Construction and Health & Wellness**.

Benefits to Students

- SHSM builds confidence and the ability to succeed with connection between school and transition to Apprenticeship training, College, University, or the Workplace.
- Students participate in training and certification opportunities.
- Successful completion of a SHSM is indicated on the student's Ontario Secondary School Diploma (OSSD) by a Red Seal designation.
- Successful completion of SHSM is also indicated on the student's Ontario Student Transcript (OST), where it can be seen by post-secondary institutions, employers, and training organizations.
- Students receive a SHSM Record that documents their sector-related certifications, training, and course completion.

Bundled Credits

A SHSM Program must contain a bundle of 8-10 credits including:

- Four "major" credits related to the sector.
- Four "other" required credits.
- Two or Four credits in Cooperative Education.

Sector-Recognized Certifications

All SHSM students will obtain certifications in:

- Standard First Aid
- CPR Level C
- WHMIS (Workplace Hazardous Materials Information System)
- ❖ Working at Heights & Basic Health and Safety for *Construction students
- ❖ Infection Control for *Health and Wellness students

Reach Ahead and Experiential Learning Opportunities

Provide students the opportunity to explore, observe, participate, and reflect on a variety of sector-specific experiences, careers, and post-secondary pathways. These experiences include visits to industry businesses, training facilities, skill competitions, career fairs, colleges, universities, dual credit programs, and many more.



How to Plan for SHSM

Grade 10

- Students attend a SHSM Presentation to become informed. They can either choose Construction or Health and Wellness by completing the SHSM Application Form and submitting to Guidance.
- During course selection time, students schedule some of their “major” and “other” courses in their Grade 11 timetable.
- Students can also select a 2 credit (half day) or 4 credit (full day) co-op. A Cooperative Education Placement is a requirement of SHSM, so it is recommended that students schedule their placement in their Grade 11 timetable or in summer school. Please **NOTE:** students must have a summer job which is used as their co-op placement. Otherwise, students cannot participate in summer school co-op.
- Students can wait to schedule their co-op in Grade 12. For those with academically demanding timetables with limited space, they are recommended to enroll into school summer school co-op (however, this must be arranged independently by the student beforehand).

Grade 11

- Students begin SHSM by taking their “major” credits and “other” credits.
- Students will have opportunities to participate in their sector-recognized certifications.
- Students can keep track of their courses and certifications earned with the SHSM Completion Plan in Guidance and the online Planner in myBluePrint.

Grade 12

- Students will continue to complete SHSM course requirements, remaining certifications and participate in Reach Ahead and Experiential Learning opportunities.
- If students do not complete all requirements associated with the SHSM Program, then the Red Seal designation will not be awarded on the Ontario Secondary School Diploma (OSSD). Students will, however, have record of completed certifications.



Ontario Youth Apprenticeship Program (OYAP)

Students can enter the Ontario Youth Apprenticeship Program in Grade 11, when they are at least 15 years of age and have 14 credits. Every student who is doing their Co-op placement in a skilled trade (there are [144 skilled trades in Ontario](#)) is considered an OYAP student. It's a great opportunity to try a trade and start earning on-the-job hours and training while you are still in High School!

Students who are confident in their trade pathway can apply and interview for the [Accelerated OYAP](#) Program in Grade 11. Upon acceptance, students begin this Program in semester two of their Grade 12 year. A Registered Training Agreement must be complete with an employer and students work in their skilled trades placement while accumulating apprenticeship hours. Students also begin their Level One Apprenticeship Education through a Training Delivery Agent: Durham College, Fleming College, Durham Hairstyling Academy, or LiUNA Local 183. Currently, KPR offers Level One Apprenticeship Partnership-Training with: **General Carpenter, Electrician, Plumber, Welder, Industrial Millwright Mechanic, Automotive Service Technician, Cook, Hairstylist, and Construction Craft Worker.**

Check out the [KPR OYAP website](#) to learn more about the apprenticeship pathways for secondary students in KPR.

Pathways to Apprenticeship

Pathway	How?	Delivery	Contact	Cost
High School then Employer	Cooperative Education (OYAP)	90% on the job 10% in class	Guidance Office	Free
Employer after Graduation	Employment Ontario	90% on the job 10% in class	Employment Ontario	In-School Training = \$400 + EI + Training Grants
College then Employer	Apply through OntarioColleges.ca	50% in class 50% in labs	Ontario Colleges	College Tuition + In-school training (for Compulsory Trades) + EI + Training Grants



eLearning: Desire to Learn (D2L)

The Ministry of Education requires students to complete **two online learning credits** as part of achieving the Ontario Secondary School Diploma (OSSD). There is an option to opt out however, there are many benefits to taking eLearning courses. Many University and College Institutions use the same online platform (*D2L – Desire to Learn*) as High Schools across Ontario. This often results in greater post-secondary achievement because students already familiarize themselves with D2L in High School. In addition, students who require a course that is not offered, travel, prefer a hybrid model (a combination of in person and online classes), have a timetable conflict, or experience other challenges may be interested in taking an eLearning course.

eLearning courses are available for students in each grade level. The majority of course offerings are available for Grade 11 and 12 students. Students interested in selecting an eLearning course can meet with Guidance and receive support with orientation sessions. In most cases, students are accepted into the eLearning course of choice, but late registry can result in high waitlists. Acceptance is not guaranteed so students are encouraged to make their eLearning selections with Guidance as soon as possible. Alternate courses and plans are recommended.

When the eLearning course begins, students are required to log in daily - Monday to Friday. The online teacher will post daily content and work that often includes discussion posts and assignments. Students have the flexibility to work on their eLearning course(s) from home or at Clarke in the Guidance and Learning Commons space. Additional support is provided to students in these spaces, including direct support from the Business Hub Teacher. Since Clarke is known as the Hub School for Business, students benefit with direct support and instruction from the Hub Teacher with their Marketing, Entrepreneurship, Leadership, and International Business courses.

See the **Guidance Department** for further details.



Prior Learning Assessment and Recognition (PLAR)

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

The PLAR process involves two components: “challenge” and equivalency.

The “challenge” process refers to the process, whereby students prior learning is assessed for the purpose of granting credit for a course developed from a provincial curriculum policy document. Determining equivalency involves the assessment of credentials from other jurisdictions.

A maximum of four credits must be granted through the challenge process for grade 10, 11 and 12 courses with no more than two in one subject area. Students may challenge courses only after the course has been in place for at least one year.

See the **Guidance Department** for further details.