

COURSE CALENDAR 2020-2021

Central Huron  
Secondary School



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# CHSS Course Calendar 2020-2021

**By Chris Smith - Principal of Central Huron Secondary School**

The Avon Maitland District School Board is committed to ensuring students have the opportunity to graduate secondary school in four years and to ensuring a variety of course offerings for our students. In order to achieve both goals efficiently students need to be registered full time in each semester. Students in Avon Maitland District School Board secondary schools are required to register with a sufficient number of courses to be considered full time for each semester in which they attend our schools.

## School Goals and Philosophy

CHSS is a safe, vibrant community school which values mutual respect and active citizenship. Staff and students learn together through a variety of relevant experiences in the classroom, and through extracurricular activities. We strive for excellence in everything we do. Our school motto, "Hinc Lucem", is 'from this place light'. When you graduate from CHSS you will be well equipped to take on the worlds challenges, as you will have taken a depth and breadth of course offerings that match your needs and desires.

## School Support Services and Resources/Library

CHSS has a state of the art library and Learning Hub. The library's collection includes non-fiction, fiction, and reference books, magazines, newspapers, computer programs, and high speed internet access; in fact the entire school has free high speed wifi. A qualified staff member will provide library orientations and skills workshops so students can successfully access and interpret information. Students are assisted on a one-on-one, small group, and whole class basis. Teachers within the Learning Hub are available throughout the day to assist students in all pathways and in all subjects, to help them to meet their academic goals. Library holdings can now be researched from home over the internet by going to [destiny.amdsb.ca](http://destiny.amdsb.ca).

## Special Education Services

The Special Education Department, in consultation with the school principal, offers a range of services to support students, parents/guardians and teachers. The individual learning needs of each student determine the specialized support required with integration and inclusion as the primary goal. The majority of students meet success in regular classrooms with program accommodations and environmental supports. The resource room is available throughout the day to assist in accommodation supports that may include technological supports, test and exam writing assistance, social/emotional assistance, and more.



## Guidance Support and Course Changes

As students progress through high school, they are encouraged to discuss their plans and courses with counsellors who are available to assist with academic, vocational and other concerns. Information is available to help students select courses with regard to future plans. Every year students receive a course calendar, which is a valuable resource for both students and parents. It also provides a guideline for courses to be considered when making course selections for each year of high school. Parents are encouraged to contact the counsellors regarding any assistance or information requested by their son or daughter.

Our goal is to counsel each student every year. It is particularly important to ensure that students have the necessary requirements for admission to any post-secondary institution which they are considering attending. It is never too early to be having these conversations. Information on careers, universities and colleges is available to all students. The website My Blueprint also supports the search for career and post-secondary school information and provides an interest test called "Discovery" for grades 7-9 and Exploration for grades 10-12 on their website [www.myblueprint.ca/amdsb](http://www.myblueprint.ca/amdsb).

For students with particular challenges, referrals for testing can be made through the Guidance Department to the psychologist or to an appropriate agency. There are several opportunities for enrichment for our capable and gifted learners: math contests, exchange opportunities and board-wide and regional enrichment opportunities.

Students experiencing difficulties in a particular course are encouraged to seek help from their teacher and, if necessary, request a peer tutor. Recommended senior students offer help one lunch hour per week and are matched with a student requesting help. Most often, tutors work on mathematics, but any subject is possible.

Any students wishing to change a course should consult their Guidance Counsellor. Course changes can occur at different times in the year for a variety of reasons. Any change in courses is always made with careful consideration of the student's needs and career goals and when necessary with the consent of the parent or guardian. In the first few months of secondary school, it is critically important for parents to keep the lines of communication open with their child(ren) and their teachers. Where difficulty in a subject or other matter related to school is identified, parents and student(s) are encouraged to come to guidance to work out solutions. We invite all parents/guardians to take an active role as your children plan their future at CHSS and beyond.

## Awards

Central Huron Secondary School has a rich and long tradition of community support through our Awards program. Over 100 students are honoured at Commencement every year and at our annual Fall Awards Assembly. Awards vary from recognition in specific subjects and overall proficiency, to citizenship and recognition of contributions to the Arts programs. A detailed list of awards is available in the Student Services Office. Tens of thousands of dollars are handed out every year to students at these events.

## Student Responsibilities

### Achievement and Attendance

Students who fail courses or choose to withdraw from a course may jeopardize their attainment of an Ontario Secondary School Diploma. Regular attendance at school is critical for the student's learning and for achievement of course expectations. The Central Huron Secondary School attendance policy is published in the student handbook. Students are required to attend all classes but may occasionally be excused for medical and dental appointments. Reasons of a personal nature must only be used in the most extreme of cases. Every effort, however, should be made to schedule these appointments outside of school time. If a student is absent, the parent or guardian must notify the school of the date, time, and reason for the absence either by calling the school prior to or on the day of the absence or by providing a signed note by 9:00 a.m. on the date of the student's return to school. Students are expected to come to school on time, ready and willing to participate actively in their own learning. To that end, students are expected to bring materials with them for their own personal note-taking (e.g. pencils, pens, paper, binders).

### Student Fees

There are no fees charged to students to participate in the regular day school program. Fees may be charged if the student chooses to upgrade the material or where purchase of material is optional. Students enrolled in secondary schools in Avon Maitland District School Board can expect to be provided with the classroom learning resources that are required in order to complete the course expectations. It is recognized that there may be optional resources that students may purchase to enhance their program; e.g. field trips, upgrading materials in courses such as construction technology and visual arts.

Students are encouraged to purchase their school's student card by paying the student activity fee. The student card includes but is



not limited to the benefit of participating in the co-instructional program and in Student Council dances and activities. Students involved in co-instructional teams, groups and clubs will be made aware of any additional fundraising obligations or participation fees prior to making a commitment to participate.

## **Student Conduct**

Each school has a Code of Conduct, which is derived from Ministry of Education and Avon Maitland District School Board policies. It is contained in the booklet "Together for Safe Schools: Code of Conduct" which is available through each school and the Avon Maitland District School Board website at [www.amdsb.ca](http://www.amdsb.ca). At CHSS, the student Code of Conduct is published in the student handbook, which is available on-line.

## **The Post Grade 9 Years:**

Once you have attained 16 credits, you may...

### **Enroll in a Specialist High Skills Major (SHSM)**

After a rigorous application and evaluation process through the Ministry of Education, CHSS is the only school in Huron County that has been approved to offer four unique Specialist High Skills Major programs. Completing an SHSM allows a student to earn their "Red Seal" diploma which signifies that students have met and completed the strict criteria associated with advanced curricular standing in the particular SHSM field. Each SHSM requires the completion of a Co-op placement, specialized training and certification courses, and a bundle of Grade 11 and 12 major credits with reach ahead experiential learning activities.

Please see guidance if you are interested in any of the following programs:

- » Health and Wellness
- » Agriculture
- » Manufacturing
- » Information and Communications Technology

### **Enroll in Dual Credit**

We will help facilitate your expanded learning opportunities. Dual credit programs allow senior students the opportunity to earn high school and college credits at the same time! AMDSB is currently offering dual credits in cooperation with Fanshawe College, Lambton College and Conestoga College. Students attend one of the college campuses for a full day per week for approximately fifteen weeks. All travel expenses and tuition are fully covered and there is no cost to the student.

Available courses may include:

- » Aesthetics
- » Bakeshop Applications
- » Cabinet Making
- » Community Mental Health
- » CNC Programming
- » Criminology
- » Culinary Arts
- » Digital Imaging

Program availability is subject to change. A maximum of 4 college-delivered dual credits can be counted as optional credits towards the Ontario Secondary School Diploma (OSSD). Dual Credits cannot be used as substitutions for compulsory credit requirements. Dual credit programs are intended to assist secondary school students in the completion of their OSSD and provide a successful transition to college and apprenticeship programs. As well, students in Specialist High Skills Major (SHSM) programs and the Ontario Youth Apprenticeship Programs (OYAP) are eligible to enroll. Enrolment in half or full day Co-op allows greater flexibility to participate.

To find out what dual credit offerings are available and to take advantage of this great opportunity, contact your Guidance Counselor, Student Success teacher or Co-op teacher for an up-to-date listing of course offerings and to obtain an application form. More information can be found at [successforlife.ca/dual-credit](https://successforlife.ca/dual-credit).

## Ontario Youth Apprenticeship Program

- » Are you a hands on learner?
- » Do you like to solve problems?
- » Are you good at fixing things?
- » Do you find it difficult to sit in a classroom all day?

**If you answered yes to any of the above, the apprenticeship pathway may be for you!**

Get started on your apprenticeship while in high school. The Ontario Youth Apprenticeship Program (OYAP) allows you to be considered an OYAP Participant and earn cooperative education credits for work experience in an apprenticeable trade.

To participate in OYAP you must: be at least 16 years of age, have completed a minimum of 16 credits, be a full-time student working

towards completion of your diploma and complete the OYAP participant form. A student who participates in OYAP must have a Personalized Placement Learning Plan (PPLP) that is based on the on-the-job training requirements outlined in the government approved training standard for that trade. Training Standard competency boklets can be found on the Ontario College of Trades Website. The OYAP program is funded by the government of Ontario, Ministry of Advanced Education and Skills Development.

## Specialist High Skills Majors

The SHSM is a specialized program that allows students to focus their learning on a specific economic sector while meeting the requirements for the Ontario Secondary School Diploma (OSSD), and assist in their transition from secondary school to apprenticeship training, college, university, or the workplace. The Specialist High Skills Major programs allow students to focus on a career path that matches their skills and interests. Visit [www.successforlife.ca](http://www.successforlife.ca) to view the SHSM sectors available at this school.

### **Every SHSM must include the following five components:**

- » A bundle of 8-10 Grade 11 and 12 courses in the selected field that includes 2 cooperative education credits
- » Sector-recognized certifications and/or training courses
- » Experiential learning activities within the sector
- » Reach Ahead experiences connected with the student's chosen post-secondary pathway
- » Development of key Essential Skills and Work Habits required for the sector; and the use of the Ontario Skills Passport (OSP) for purposes of documentation

### **Benefits to students enrolled in a SHSM program:**

- » Customize their secondary school education to suit their interests and talents.
- » Develop specialized knowledge and skills.
- » Earn credits that post-secondary educational institutions and the sector recognize.
- » Gain sector-recognized certification and career-relevant training.
- » Develop essential skills and work habits documented through the Ontario Skills Passport.
- » Identify, explore and refine career goals and make informed decisions about their future.
- » Remain flexible, with the option to shift between pathways, should their goals and plans change.

## Coop Course Notes:

- » Summer school co-op is an option for students enrolled in a Specialist High Skills Major
- » SHSM candidates may use up to 4 co-op credits towards their bundle of SHSM requirements.
- » 2 co-op credits are required in the SHSM Credit Bundle. Co-op tie-in must be within the approved bundle of credits (GLC2O is also available to be used).

**CHSS offers 4 specialist high skills major programs. We are also proud to have the highest participation and success rate of any high school in AMDSB.**

## Agriculture

### High Skills Major Pathways

It is clear that agriculture plays a major role in the lives of many families connected to Central Huron Secondary School. These program enable students to gain sector-specific skills and knowledge in engaging, career-related learning environments, in a focused way for graduation and post secondary education, training, or employment.

Students who are enrolled in the program will complete sector-recognized certifications and or training courses as well as be part of career exploration activities such as field trips and hearing from expert guest speakers.

## Health and Wellness

### High Skills Major Pathways

Kinesiologist, child care worker, audiologist, fitness instructor, doctor, nurse, physiotherapist, youth care worker, hospital porter, and medical technician are just some of the numerous and varied occupations in the health and wellness sector.

The SHSM–Health and Wellness enables students to build a foundation of sector-focused knowledge and skills before graduating and entering apprenticeship training, college, university, or an entry-level position in the workplace. Depending on local circumstances, this SHSM may be designed to have a particular focus – for example, on health care, fitness, or child care and family services.

## Information and Communications

### High Skills Major Pathways

Students enrolled in the SHSM–Information and Communications Technology will be involved in today’s rapid and exciting changes in technology and will contribute to new and emerging media and technologies in the years to come.

The SHSM–Information and Communications Technology enables students to build a foundation of sector-focused knowledge and skills before graduating and entering apprenticeship training, college, university, or an entry-level position in the workplace. This SHSM may be designed to have a particular focus – for example, on communication, software and digital media.

## **Manufacturing**

### **High Skills Major Pathways**

The Specialist High Skills Major (SHSM) program in Manufacturing gives students an opportunity to specialize, gain qualifications, and plan a career pathway in various areas of the Manufacturing sector while still in high school. The SHSM Program has a number of required training components and certifications, designed to prepare students for post-secondary opportunities in each of the identified sectors, valuing all 4 destinations.

## **Experiential Learning**

Schools are offering more opportunities to customize your high school experience and build on your strengths and interests through a variety of new and enhanced learning options through Experiential Learning. Experiential Learning programs such as Cooperative Education, Dual Credits, Ontario Youth Apprenticeship Program (OYAP) and Specialist High Skills Major (SHSM) enhance your academic background and provide you with opportunities to gain valuable experiences in our community.

No matter what your post-secondary pathway may be, experiential learning can assist you in making career decisions and help you develop the knowledge, skills and habits required in the workplace. All forms of experiential learning are a valuable complement to your post-secondary preparation and future employment. Experiential learning is an inquiry-based pedagogical approach that provides opportunities for students to co-construct their learning by participating in rich experiences connected to a community outside school; reflecting on those experiences to derive meaning; and applying their learning to influence their decisions and actions in various aspects of their lives.

## **Avon Maitland District eLearning Centre**

AMDEC is a fully online secondary school within the Avon Maitland DSB, which offers courses from grade 9 to grade 12 in most subject areas. Our courses are taught by experienced AMDSB teachers who are committed to student success through a quality eLearning experience. Your success as a student is also supported by our principal, vice principal, guidance counsellor, technical help department, office staff and the home school. We believe that our program provides an excellent educational opportunity for all of our students.

AMDEC delivers semestered, as well as non-semestered continuous intake courses. With the permission of your home school, you may start AMDEC courses any time between September and mid-February, but all students must finish by early June. You have some flexible deadlines for your assignments; however, you are responsible for establishing a schedule that meets both AMDEC's due dates and your own needs (for example, completing the course by the end of first semester or meeting postsecondary mark submission deadlines). Module completion requirements and a list of important due dates are posted in the Student Handbook and are also available on our website: [amdec.avonmaitlandsecondary.ca](http://amdec.avonmaitlandsecondary.ca).

Students wishing to take an AMDEC course must register through the guidance department of their home school. You may consider eLearning courses for a number of reasons: to take a course that is not offered at your home school; to solve a timetable conflict; and to experience eLearning before starting post-secondary education. To succeed in eLearning you need skills in: self-motivation, organization, self-direction, time management, computer proficiency, and honesty. Students will need to visit Student Services in late May to see the course offerings for AMDEC.

## Cooperative Education and Work Experience

Cooperative Education is a program that offers students the opportunity to extend classroom learning into supervised learning experiences in the community. Students can earn secondary school credits, which are connected to specific school subjects in school. Cooperative Education programs combine a work placement component in the community, along with a classroom component. The classroom component includes a pre-placement session prior to attending a placement in the community and integration sessions throughout the school year.

Cooperative Education courses can be selected in either a 2-credit or 4-credit package, depending upon the individual student's timetable and the type of placement and experience desired. Students interested in Cooperative Education must complete a Cooperative Education application form and interview with the Cooperative Education teacher prior to starting a Co-op course. The student needs to demonstrate maturity, a positive attitude, an ability to be punctual and maintain regular attendance and a willingness to learn. Students must also be prepared to adhere to the policies of the workplace and school and follow health and safety regulations at the workplace. Placements are subject to availability in the community. Students are encouraged to discuss their placement choices with a Co-op teacher when registering.

# Course Lists by Grade

## Grade 9 Courses

Students in Grade 9 will take the following 8 Compulsory Credits

- » Canadian and World Studies - CGC1D or CGC1P
- » English - ENG1D or ENG1L or ENG1P
- » French - FSF1D or FSF1P
- » Mathematics - MPM1D or MAT1L or MFM1P
- » Science - SNC1D or SNC1L or SNC1P
- » Healthy Living - PPL1O
- » Learning Strategies 1 (with permission from principal) - GLE1O

**Choose one of the following**

- » Music - AMU1O
- » Visual Arts - AVI1O
- » Drama - ADA1O

**Choose one of the following**

Technologies (Construction, Design, Communication) - TIJOU

Technologies (Manufacturing, Construction, Transportation) - TIJO

Introduction to Business - BTT1O

## Grade 10 Courses

Grade 10 will take the following 5 Compulsory Credits and choose 3 optional credits (Some credits may fulfill an additional compulsory credit requirement)

- » Canadian and World Studies - CHC2D or CHC2L or CHC2P
- » Career Studies (.5 credit) - GLC2O
- » Civics and Citizenship (.5 credit) - CHV2O
- » English - ENG2D or ENG2L or ENG2P
- » Mathematics - MPM2D or MAT2L or MFM2P
- » Science - SNC2D or SNC2L or SNC2P

**Choose 3 of the following optional credits**

- » Drama - ADA2O
- » Music - AMU2O
- » Visual Arts - AVI2O

- » Information and Communication Technology - BTT2O
- » French - FSF2D
- » Personal and Fitness Activities (Live Fit) - PAF2O
- » Physical Education - PPL2O
- » Construction Technology - TCJ2O
- » Technological Design - TDJ2O
- » Hospitality and Tourism - TFJ2O
- » Communications Technology - TGJ2O
- » Transportation Technology - TTJ2O
- » Manufacturing Technology - TMJ2O
- » Spanish - LWSBO

## Grade 11 Courses

All students in grade 11 will choose 8 courses. English and Mathematics Credits are compulsory.

Students must check carefully that the requirements for any additional compulsory credits are completed.

- » English - ENG3C or ENG3E or ENG3U
- » Mathematics - MBF3C or MEL3E or MCF3M or MCR3U

### Choose Up to 6 Additional Credits:

Students in Grade 11 may select a Grade 12 course if prerequisite is completed.

- » Drama - ADA3O or ADA3M
- » Music - AMU3M
- » Visual Arts - AVI3M or AVI3O
- » Financial Accounting Fundamentals - BAF3M
- » Entrepreneurship: The Venture - BDI3C
- » World History to the Sixteenth Century - CHW3M
- » Canadian Law - CLU3M
- » Cooperative Education - COP4C2 (2 credit) or COP4C4 (4 credit)
- » French - FSF3U
- » Healthy Active Living Education - PPL3O
- » Personal and Fitness Activities (LiveFit) - PAF3O
- » Biology - SBI3C or SBI3U

- » Chemistry - SCH3U
- » Environmental Science - SVN3E
- » Parenting - HPC3O
- » Physics - SPH3U
- » Construction Engineering Technology - TCJ3E or TCJ3C
- » Technological Design - TDJ3O and TDJ3M
- » Hospitality and Tourism - TFJ3E or TFN3C
- » Living and working with Children - HPW3C
- » Introduction to Anthropology, Psychology and Sociology (SAP) - HSP3C or HSP3U
- » Communications Technology - TGJ3M
- » Photography and Digital Imaging - TGP3M
- » TV, Video and Movie Production - TGV3M
- » Manufacturing Technology - TMJ3E or TMJ3C
- » Transportation Technology - TTJ3O or TTJ3C

## Grade 12 Courses

Students entering Grade 12 shall choose a minimum of 6 courses and must choose one English course to complete diploma requirements. Grade 12 students returning for a fifth year are welcome to register for a full course load, however are encouraged to register for the courses they intend to complete.

- » English - ENG4C or ENG4E or ENG4U

### Optional Credits:

- » Music - AMU4M
- » Drama - ADA4M
- » Entrepreneurship: Business Leadership - BOH4M
- » Making Personal Economic Choices - CIC4E
- » Financial Accounting Principles - BAT4M
- » Aging and Society - Gerontology - IDC4O
- » Visual Arts - AVI4M
- » Healthy Active Living - PPL4O
- » Navigating the Workplace - GLN4O
- » World History: The West and the World - CHY4C or CHY4U
- » Cooperative Education - COP4C2 (2 credit) or COP4C4 (4 credit)

- » Issues of Indigenous Peoples in a Global Context - NDW4M
- » English Literacy - OLC4O
- » Foundations for College Mathematics - MAP4C
- » Calculus and Vectors - MCV4U
- » Mathematics for College Technology - MCT4C
- » Mathematics for Data Management - MDM4U
- » Mathematics for Everyday Life - MEL4E
- » Advanced Functions -MHF4U
- » French - FSF4U
- » Exercise Science - PSK4U
- » Biology - SBI4U
- » Chemistry - SCH4C or SCH4U
- » Science - SNC4E
- » Physics - SPH4C or SPH4U
- » Challenge and Change in Society - HSB4U
- » Individuals and Families in a Diverse Society - HHS4C or HHS4U
- » Construction Engineering Technology - TCJ4E or TCJ4C
- » Technological Design - TDJ4O and TDJ4M
- » Hospitality and Tourism - TFJ4E or TFN4C
- » Communications Technology - TGJ4M
- » Photography and Digital Imaging - TGP4M
- » TV, Video and Movie Production - TGV4M
- » Manufacturing Technology - TMJ4E or TMJ4C
- » Transportation Technology - TTJ4E or TTJ4C

# Course Selections 2020-2021

## Dramatic Arts

### ADA2O

#### Drama

#### Grade 10, Open

This course requires students to actively explore dramatic forms and techniques, using their own ideas and concerns as well as sources selected from a wide range of authors, genres, and cultures. Student learning will include identifying and using the principles of space, time, voice, and movement in creating, sustaining, and communicating authentic roles within a drama. Students will assume responsibility for decisions made in the creation and presentation of the drama, and will analyse and reflect on the experience.

### ADA3O

#### Drama

#### Grade 11, Open

This course requires students to create and to present dramatic works. Students will conduct research on and study such types of contemporary theatre as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyse and reflect on dramatic works; and develop their communication skills and other skills useful in a variety of careers.

**Prerequisite: Dramatic Arts, Grade 9 or 10, Open**

### ADA3M

#### Drama,

#### Grade 11, University/College Preparation

This course requires students to create and perform in dramatic presentations. Students will analyse, interpret, and perform dramatic works from various cultures and time

periods. Students will research various acting styles and conventions that could be used in their presentations, and analyse the functions of playwrights, directors, actors, designers, technicians, and audiences. **Prerequisite: Drama, Grade 9 or 10, Open**

### ADA4M

#### Drama,

#### Grade 12, University/College Preparation

This course requires students to experiment individually and collaboratively with forms and conventions of both drama and theatre from various cultures and time periods. Students will interpret dramatic literature and other texts and media sources while learning about various theories of directing and acting. Students will examine the significance of dramatic arts in various cultures, and will analyse how the knowledge and skills developed in drama are related to their personal skills, social awareness, and goals beyond secondary school. **Prerequisite: Drama, Grade 11, University/College Preparation**

## Music

### AMU1O

#### Music

#### Grade 9, Open

This course emphasizes the performance of music at a level that strikes a balance between challenge and skill and is aimed at developing technique, sensitivity, and imagination. Students will participate in creative activities that teach them to listen with understanding. They will also learn correct musical terminology and its appropriate use.

**AMU2O****Music****Grade 10, Open**

This course emphasizes performance of music at an intermediate level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history.

**AMU3M****Music****Grade 11, University/College Preparation**

This course emphasizes the appreciation, analysis, and performance of various kinds of music, including baroque and classical music, popular music, and Canadian and non-Western music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyse and evaluate live and recorded performances. They will continue to increase their understanding of the elements of music while developing their technical and imaginative abilities.

**Prerequisite: Music, Grade 9 or 10, Open**

**AMU3O****Music****Grade 11, Open**

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

**Prerequisite: Music, Grade 9 or 10, Open**

**AMU4M****Music****Grade 12, University/College Preparation**

This course emphasizes the appreciation, analysis, and performance of music from the romantic period and the twentieth century, including art music, jazz, popular music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects.

**Prerequisite: Music, Grade 11, University/College Preparation or Open**

## Visual Arts

**AVI1O****Visual Arts****Grade 9, Open**

This course offers 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 through working with a range of material processes, techniques, and styles. They will learn and use methods of analysis and criticism and will study the characteristics of particular historical art periods and a selection of Canadian art and the art of other cultures.

**AVI2O****Visual Arts****Grade 10, Open**

This course emphasizes learning through practice; building on what students know; and introducing them to new ideas, materials, and processes for artistic thinking and experimentation. Student learning will include the refined application of the elements and principles of design, incorporating the creative and design processes, and the relationship between form and content. Students will also learn

about the connections between works of art and their historical contexts.

### **AVI3M**

#### **Visual Arts**

#### **Grade 11, University/College Preparation**

This course provides students with opportunities to further develop their skills and knowledge in visual arts. Students will explore a range of subject matter through studio activities, and will consolidate their practical skills. Students will also analyse art works and study aspects of Western art history, as well as art forms from Canada and other parts of the world.

**Prerequisite: Visual Arts, Grade 9 or 10 Open**

### **AVI3O**

#### **Visual Arts**

#### **Grade 11, Open**

This course focuses on studio activities in one or more of the visual arts. Students will create art works that explore a wide range of subject matter, and will evaluate art works, providing grounds for their aesthetic judgments. They will also examine historical and cultural contexts of Western art (including Canadian art) and art from various world cultures to support their study of specific media. **Prerequisite: Visual Arts, Grade 9 or 10 Open**

### **AVI4M**

#### **Visual Arts**

#### **Grade 12, University/College Preparation**

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

students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts.

**Prerequisite: Visual Arts, Grade 11, University/College Preparation**

## **Business**

### **BTT20**

#### **Information and Communication Technology**

#### **Grade 10, Open**

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

### **BAF3M**

#### **Financial Accounting Fundamentals**

#### **Grade 11, University/College Preparation**

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

**BDI3C****Entrepreneurship: The Venture  
Grade 11, College Preparation**

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.

**BOH4M****Business Leadership: Management  
Fundamentals  
Grade 12, University/College Preparation**

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.

**BAT4M****Financial Accounting Principles  
Grade 12, University/College Preparation**

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

introduces accounting for partnerships and corporations.

**Prerequisite: Financial Accounting  
Fundamentals, Grade 11, University/  
College Preparation****BTT1O****Information and Communication  
Technology  
Grade 9, Open**

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

## Canadian & World Studies

**CGC1D****Geography of Canada  
Grade 9, Academic**

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

**CGC1P****Geography of Canada****Grade 9, Applied**

This course focuses on current geographic issues that affect Canadians. Students will draw on their personal and everyday experiences as they explore a range of issues, including food and water supplies, competing land uses, and interactions with the natural environment, developing their awareness that issues that affect their lives are interconnected with issues in other parts of the world. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate choices related to sustainable living in Canada.

**CHC2D****Canadian History Since World War 1****Grade 10, Academic**

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

**CHC2L****Canadian History****Grade 10, Locally Developed**

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 have the opportunity to extend analytical skills with a focus on identifying and interpreting events and perspectives and making connections. Students practice reading, writing, visual, and oral literacy skills, and mathematical literacy skills to identify and communicate ideas in a variety of forms.

**CHC2P****Canadian History Since World War 1****Grade 10, Applied**

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

**CHV2O, (0.5 Credit)****Civics****Grade 10, Open**

This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic

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

### **CHW3M**

#### **World History to the Sixteenth Century Grade 11, University/College Preparation**

This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.

**Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied**

### **CLU3M**

#### **Understanding Canadian Law Grade 11, University/College Preparation**

This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of laws relating to rights and freedoms in Canada; our legal system;

and family, contract, employment, tort, and criminal law. Students will develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating a range of legal issues and formulating and communicating informed opinions about them.

**Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied**

### **CHY4C**

#### **World History: The West and the World Grade 12, College Preparation**

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

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

### **CHY4U**

#### **World History: The West and the World Grade 12, University Preparation**

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

as they investigate key issues and assess societal progress or decline in world history.

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

#### **NDW4M**

#### **Issues of Indigenous Peoples in a Global Context**

#### **Grade 12, University/College Preparation**

This course examines historical and contemporary issues of concern to Indigenous peoples from a global perspective. Students will explore the richness, depth, and diversity of Indigenous cultures, traditions and knowledge. They will consider how diverse Indigenous communities persevere despite recent global environmental and economic trends. Topics such as identity, social justice, human rights and abuses, spirituality, resistance and protest for change will be investigated.

**Prerequisite: Any Grade 11 First Nations, Métis and Inuit Studies or any Grade 11 University, University/College, or College Preparation course in Canadian and world studies or any Grade 11 University, University/College, or College Preparation course Social Science and Humanities.**

#### **CIC4E**

#### **Making Personal Economic Choices**

#### **Grade 12, Workplace Preparation**

This course provides students with a fundamental understanding of a variety of key economic issues and practices, helping them develop their ability to make informed economic choices in their day-to-day lives. Students will examine practical financial matters, such as personal budgeting, taxes, credit and debt, and savings and investment, as well as various economic issues, such as those related to the underground economy,

economic inequality, and consumer behaviour. Students will apply the concepts of economic thinking, the economic inquiry process, and economic models to investigate various economic issues and structures and to analyse the impact of economic decisions, including their own decisions, at the individual, community, and national levels. **This course is being offered in the 2020-2021 school year only.**  
**Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied, or the locally developed compulsory course (LDCC) in Canadian history.**

## Cooperative Education

#### **COP4C2, (2 credit)**

#### **Cooperative Education**

#### **Grades 11/12, Open**

Cooperative education programs help students to apply the knowledge and skills learned at school to new practical situations. This practical experience will assist them in making successful transitions to postsecondary education, apprenticeship programs, or directly to the workplace. Coop is arranged into 20 hours pre-placement, 186 hours workplace, and 14 hours integration. Students who want to try out a career and have a limited amount of space in their timetable may prefer this course. Some students may also be involved in the Ontario Youth Apprenticeship Program.

#### **COP4C4, (4 credit)**

#### **Cooperative Education**

#### **Grades 11/12, Open**

In this four-credit course, students will complete the same pre-placement and 28 hours of integration as described in COP4C2, but will complete 392 minimum hours of work. Students taking a four-credit coop usually have completed 24-26

credits, including compulsory credits. Some students may be involved in the Ontario Youth Apprenticeship Program. If students can find an employer who will sign them as apprentices for the duration of the semester, they can start to build hours towards the total hours required for an apprenticeship as well as to learn the basic skills of the trade according to the Training Standards for that trade. Many students prefer taking this coop because of the distance and time needed to get to various work sites.

## English

### **ENG1D**

#### **English**

#### **Grade 9, Academic**

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

### **ENG1L**

#### **English**

#### **Grade 9, Locally Developed**

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the Grade 10 LDCC course. The course is organized into 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 on using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

### **ENG1P**

#### **English**

#### **Grade 9, Applied**

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

### **ENG2D**

#### **English**

#### **Grade 10, Academic**

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

is intended to prepare students for the compulsory Grade 11 university or college preparation course.

**Prerequisite: English, Grade 9 Academic or Applied**

## **ENG2L**

### **English**

#### **Grade 10, Locally Developed**

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

**Prerequisite: a Grade 9 English credit**

## **ENG2P**

### **English**

#### **Grade 10, Applied**

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

preparation course.

**Prerequisite: English, Grade 9, Academic or Applied**

## **ENG3C**

### **English**

#### **Grade 11, College Preparation**

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

**Prerequisite: English, Grade 10, Applied**

## **ENG3E**

### **English**

#### **Grade 11, Workplace Preparation**

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

**Prerequisite: English, Grade 10, Applied**

**ENG3U****English****Grade 11, University Preparation**

This course emphasizes the development of literacy, communication and critical and creative thinking skills. 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. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course.

**Prerequisite: English, Grade 10, Academic**

**ENG4C****English****Grade 12, College Preparation**

This course emphasizes 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 and written and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace.

**Prerequisite: English, Grade 11, College Preparation**

**ENG4E****English****Grade 12, Workplace Preparation**

This course emphasizes consolidation of literacy, communication and critical and

creative thinking skills necessary for success in the workplace and 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 the students for the workplace and active citizenship.

**Prerequisite: English, Grade 11, Workplace Preparation**

**ENG4U****English****Grade 12, University Preparation**

This course emphasizes consolidation of 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 particular texts and particular purposes for reading and developing greater control in writing. The course is intended to prepare students for university, college or the workplace.

**Prerequisite: English, Grade 11, University Preparation English Optional**

**OLC4O****Ontario Literacy Course****Grade 12, Open**

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

(OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.

**Eligibility requirement: Students who have been eligible to write the OSSLT at least once and who have been unsuccessful are eligible to take the course. (Students who have already met the literacy requirement for graduation may be eligible to take the course under special circumstances, at the discretion of the principal).**

## Guidance & Career Education

### GLE10

#### **Learning Strategies 1: Skills for Success in Secondary School**

##### **Grade 9, Open**

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.

**Prerequisite: For GLE10 Recommendation of the Principal**

### GLC20, (0.5 Credit)

#### **Career Studies**

##### **Grade 10, Open**

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.

### GLN40

#### **Navigating the Workplace**

##### **Grade 12, Open**

This course provides students with opportunities to develop the workplace essential skills and work habits required for success in all types of workplaces. Students will explore occupations and careers of interest through participation in real workplace experiences (e.g., information interviews, work experiences). They will make plans for continued learning and work, work with others to design learning experiences, and investigate the resources and support required to make a smooth transition to their postsecondary destination.

## Languages

### FSF1D

#### **French**

##### **Grade 9, Academic**

This course emphasizes the further development of oral communication, reading, and writing skills. Students will build on and apply their knowledge of French while exploring a variety of themes, such as

relationships, trends, and careers. Thematic readings, which include a selection of short stories, articles, and poems, will serve as stepping-stones to oral and written activities.

### **FSF1P**

#### **French**

#### **Grade 9, Applied**

This course emphasizes the concurrent development of oral communication, reading and writing skills, using a broad-based theme such as the media. Students will enhance their ability to understand and speak French through conversations, discussions, and presentations. They will also read short stories, articles, poems, and songs and write brief descriptions, letters, dialogues, and invitations.

### **FSF2D**

#### **French**

#### **Grade 10, Academic**

This course enables students to increase their knowledge of the French language and further develop 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.

**Prerequisite: Core French Grade 9, Academic or Applied**

### **FSF3U**

#### **French**

#### **Grade 11, University Preparation**

This course draws on a variety of themes to promote extensive development of reading and writing skills and to reinforce oral communication skills. Students will gain a greater understanding of French-speaking cultures in Canada and around the world through their reading of a variety

of materials, including a short novel or a play. Students will produce various written assignments, including a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

**Prerequisite: Core French, Grade 10 Academic**

### **FSF4U**

#### **Core French**

#### **Grade 12, University Preparation**

This course draws on a variety of themes to promote extensive development of French-language skills. Students will consolidate their oral skills as they discuss literature, culture, and current issues. They will read a variety of texts and write a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

**Prerequisite: Core French, Grade 11, University Preparation**

### **LWSBO**

#### **Spanish**

#### **Grade 10, Open**

This course provides students with opportunities to develop their oral communication skills in the Spanish language, increase their confidence in using Spanish in practical situations, and to investigate career-related opportunities. Students will be involved in activities that promote the use of the language in real-life situations. They will also explore the culture of countries where Spanish is spoken. Although students will expand their vocabulary and repertoire of language structures, the language they will use at this level will still be simple.

# Mathematics

## **MPM1D**

### **Principles of Mathematics**

#### **Grade 9, Academic**

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

## **MAT1L**

### **Mathematics**

#### **Grade 9, Locally Developed**

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

## **MFM1P**

### **Foundations of Mathematics**

#### **Grade 9, Applied**

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

## **MPM2D**

### **Principles of Mathematics**

#### **Grade 10, Academic**

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

**Prerequisite: Grade 9 Mathematics**

**Academic**

## **MAT2L**

### **Mathematics**

#### **Grade 10, Locally Developed**

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their

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

**Prerequisite: a Grade 9 Mathematics credit**

### **MFM2P**

#### **Foundations of Mathematics Grade 10, Applied**

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.

**Prerequisite: Grade 9 Mathematics  
Academic or Applied**

### **MBF3C**

#### **Foundations for College Mathematics Grade 11, College Preparation**

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world.

Students will extend their understanding of quadratic relations, as well as of measurement and geometry; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; and develop their ability to reason by collecting, analyzing, and evaluating data involving one and two variables. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

**Prerequisite: Foundations of Mathematics,  
Grade 10, Applied**

### **MEL3E**

#### **Mathematics for Work and Everyday Life Grade 11, Workplace Preparation**

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

**Prerequisite: Principles of Mathematics,  
Grade 9, Academic, or Foundations of  
Mathematics, Grade 9, Applied, or a  
ministry approved locally developed Grade  
10 Mathematics course**

### **MCF3M**

#### **Functions and Applications Grade 11, University/College Preparation**

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

world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to financial and trigonometric applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

**Prerequisite: Principles of Mathematics, Grade 10, Academic, or Foundations of Mathematics, Grade 10, Applied**

### **MCR3U**

#### **Functions**

#### **Grade 11, University Preparation**

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

**Prerequisite: Principles of Mathematics, Grade 10 Academic**

### **MCT4C**

#### **Mathematics for College Technology Grade 12, College Preparation**

This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, rational, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address

applications of algebra, trigonometry, vectors and geometry. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for a variety of college technology programs.

**Prerequisite: Functions and Applications, Grade 11, University/College Preparation**

### **MEL4E**

#### **Mathematics for Work and Everyday Life Grade 12, Workplace Preparation**

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

**Prerequisite: Mathematics for Work and Everyday Life, Grade 11, Workplace Preparation**

### **MCV4U**

#### **Calculus and Vectors Grade 12, University Preparation**

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

processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.

**Note: The new Advanced Functions can be taken concurrently with or can precede Calculus and Vectors.**

### **MDM4U**

#### **Mathematics of Data Management Grade 12, University Preparation**

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

**Prerequisite: Functions and Applications, Grade 11, University/College Preparation, or Functions, Grade 11, University Preparation**

### **MHF4U**

#### **Advanced Functions Grade 12, University Preparation**

This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; broaden their understanding of rates of change and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics.

This course is intended both for students who plan to study mathematics in university and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

**Prerequisite: Functions, Grade 11, University Preparation, or Mathematics for College Technology, Grade 12, College Preparation**

### **MAP4C**

#### **Foundations for College Mathematics Grade 12, College Preparation**

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.

**Prerequisite: Foundations for College Mathematics, Grade 11, College Preparation, or Functions and Applications, Grade 11, University/College Preparation**

## **Health & Physical Education**

### **PPL1O**

#### **Healthy Active Living Education Grade 9, Open**

This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active

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

### **PAF20**

#### **Personal and Fitness Activities (LiveFit) Grade 10, Open**

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

### **PPL20**

#### **Healthy Active Living Education Grade 10, Open**

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical

activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

### **PAF30**

#### **Personal and Fitness Activities (LiveFit) Grade 11, Open**

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and 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. Student build their sense of self learning to interact positively with others, and develop their ability to think critically and creatively. The focus of this course is on the development of a personal fitness lifestyle.

### **PPL30**

#### **Healthy Active Living Education Grade 11, Open**

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and 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.

### **PPL4O**

#### **Healthy Active Living Education**

##### **Grade 12, Open**

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

### **PSK4U**

#### **Exercise Science**

##### **Grade 12, University Preparation**

This course focuses on the study of human movement and of systems, factors, and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and 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.

**Prerequisite: None, Alternate Year Course Offered September 2019**

## Science

### **SNC1D**

#### **Science**

##### **Grade 9, Academic**

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics; to relate science to technology, society, and the environment. Throughout the course, students will develop their skills in the processes of scientific investigation. Students will acquire an understanding of scientific theories and conduct investigations related to sustainable ecosystems; atomic and molecular structures and the properties of elements and compounds; the study of the universe and its properties and components; and the principles of electricity.

### **SNC1L**

#### **Science**

##### **Grade 9, Locally Developed**

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

extend mathematical and scientific process skills and to continue developing their skills in reading, writing, and oral language through relevant and practical science activities.

### **SNC1P**

#### **Science**

#### **Grade 9, Applied**

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems; the structure and properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.

### **SNC2D**

#### **Science**

#### **Grade 10, Academic**

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

**Prerequisite: Science, Grade 9, Academic or Applied**

### **SNC2L**

#### **Science**

#### **Grade 10, Locally Developed**

Students are introduced to the horticulture industry. Plant botany is explored and discussed. Students perform, report on and apply knowledge arising from various experiments on soils, nutrients, and plant development. Students are introduced to hydroponic gardening, green house operations, landscape design and maintenance. Opportunities for post secondary education and careers in horticulture are explored.

### **SNC2P**

#### **Science**

#### **Grade 10, Applied**

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

**Prerequisite: SNC1P or SNC1D**

### **SBI3C**

#### **Biology**

#### **Grade 11, College Preparation**

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

needed for further study in the various branches of life sciences and related fields.

**Prerequisite: Science, Grade 10, Academic or Applied**

### **SBI3U**

#### **Biology**

#### **Grade 11, University Preparation**

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

**Prerequisite: Science, Grade 10, Academic**

### **SCH3U**

#### **Chemistry**

#### **Grade 11, University Preparation**

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

**Prerequisite: Science, Grade 10, Academic**

### **SPH3U**

#### **Physics**

#### **Grade 11, University Preparation**

This course develops students' understanding of the basic concepts of physics. Students will explore kinematics,

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

**Prerequisite: Science, Grade 10, Academic**

### **SVN3E**

#### **Environmental Science**

#### **Grade 11, Workplace Preparation**

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

**Prerequisite: Science, Grade 9 Academic or Applied Science, Grade 10 Locally Developed**

### **SBI4U**

#### **Biology**

#### **Grade 12, University Preparation**

This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the

areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields.

**Prerequisite: Biology, Grade 11, University Preparation**

#### **SCH4C**

##### **Chemistry**

##### **Grade 12, College Preparation**

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

**Prerequisite: Science, Grade 10, Academic or Applied**

#### **SCH4U**

##### **Chemistry**

##### **Grade 12, University Preparation**

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

importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment.

**Prerequisite: Chemistry, Grade 11, University Preparation**

#### **SPH4C**

##### **Physics**

##### **Grade 12, College Preparation**

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

**Prerequisite: Science, Grade 10, Academic or Applied**

#### **SPH4U**

##### **Physics**

##### **Grade 12, University Preparation**

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

technological applications of physics on society and the environment.

**Prerequisite: Physics, Grade 11, University Preparation**

### **SNC4E**

#### **Science**

#### **Grade 12, Workplace Preparation**

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

**Prerequisite: Science, Grade 11, Workplace Preparation**

## Social Science & Humanities

### **IDC4O**

#### **Interdisciplinary Studies: Aging and Society - Gerontology**

#### **Grade 12, Open**

This course emphasizes the development of practical skills and knowledge to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject or discipline. Through individual and collaborative inquiry and research into contemporary issues, real-life situations, and careers, students will apply the principles and skills derived from the complementary subjects and disciplines studied, evaluate the reliability of information, and examine how information technology can be used safely, effectively,

and legally. They will also learn how to select strategies to define problems, research alternative solutions, assess their thinking in reaching decisions, and adapt to change as they acquire new knowledge.

### **HSP3C**

#### **Introduction to Anthropology, Psychology, and Sociology**

#### **Grade 11, College Preparation**

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

### **HSP3U**

#### **Introduction to Anthropology, Psychology, and Sociology**

#### **Grade 11, University Preparation**

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

**Prerequisite: The Grade 10 academic course in English, or the Grade 10 academic history course (Canadian and world studies)**

**HPC3O****Raising Healthy Children****Grade 11, Open**

This course focuses on the skills and knowledge parents, guardians, and caregivers need, with particular emphasis on maternal health, pregnancy, birth, and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with them, and effectively guide their early behaviours. Students will develop their research skills through investigations related to care giving and child rearing.

**HPW3C****Working with Infants and Young Children****Grade 11, College Preparation**

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

**HSB4U****Challenge and Change in Society****Grade 12, University Preparation**

This course focuses on the use of social science theories, perspectives, and methodologies to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour and their impact on society. Students will critically analyse how and why

cultural, social, and behavioural patterns change over time. They will explore the ideas of social theorists and use those ideas to analyse causes of and responses to challenges such as technological change, deviance, and global inequalities. Students will explore ways in which social science research methods can be used to study social change.

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

**HHS4C****Families in Canada****Grade 12, College Preparation**

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

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

**HHS4U****Families in Canada****Grade 12, University Preparation**

This course enables students to draw on sociological, psychological, and anthropological theories and research to analyse the development of individuals, intimate relationships, and family and parent-

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

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

## Technological Education

### TIJ10

#### Exploring Technologies

##### Grade 9, Open

This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the various technological areas or industries, working with a variety of tools, equipment, and software commonly used in industry. Students will develop an awareness of environmental and societal issues, and will begin to explore secondary and postsecondary education and training pathways leading to careers in technology-related fields. Students have two combinations of options. Option #1 - Manufacturing, Construction & Transportation; Option #2 - Construction, Design & Communication.

### TCJ20

#### Construction Technology

##### Grade 10, Open

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

### TDJ20

#### Technological Design

##### Grade 10, Open

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

**TFJ2O**  
**Hospitality and Tourism Technology**  
**Grade 10, Open**

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

**TGJ2O**  
**Communications Technology**  
**Grade 10, Open**

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

**TMJ2O**  
**Manufacturing Technology**  
**Grade 10, Open**

This course introduces students to the manufacturing industry by giving them

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

**TTJ2O**  
**Transportation Technology**  
**Grade 10, Open**

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

**TCJ3C**  
**Construction Engineering Technology**  
**Grade 11, College Preparation**

This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret

working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore career opportunities in the field.

### **TCJ3E**

#### **Construction Technology**

##### **Grade 11, Workplace Preparation**

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

### **TDJ3O**

#### **Technological Design**

##### **Grade 11, Open**

This course enables students to apply a systematic process for researching, designing, building, and assessing solutions to address specific human and environmental challenges. Through their work on various projects, students will explore broad themes that may include aspects of industrial design, mechanical design, architectural design, control system design, and/or apparel design. Students will develop an awareness of environmental

and societal issues related to technological design, and will learn about secondary and postsecondary pathways leading to careers in the field.

### **TDJ3M**

#### **Technological Design**

##### **Grade 11, University/College Preparation**

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

### **TFN3C**

#### **Hospitality and Tourism**

##### **Grade 11, College Preparation**

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

**TFJ3E****Hospitality and Tourism  
Grade 11, Workplace Preparation**

This course enables students to acquire knowledge and skills related to the food and beverage services sector of the tourism industry. Students will learn how to prepare, present, and serve food using a variety of tools and equipment and will develop an understanding of the fundamentals of providing high quality service to ensure customer satisfaction and the components of running a successful event or activity. Students will develop an awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector.

**TGJ3M****Communications Technology  
Grade 11, University/College Preparation**

This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also develop an awareness of related environmental and societal issues and explore college and university programs and career opportunities in the various communications technology fields. This course will be offered as a 1 credit course where students will receive 1 credit in TGJ3M or as a 2 credit course when paired with a focus course of their choice ie.((TGP3M (Photography), TGV3M (Video), or TGR3M (Broadcast)).

**TGP3M****Communications Technology:  
Photography and Digital Imaging  
Grade 11, University/College Preparation**

This course enables students to further develop knowledge and skills in digital imaging and photography. Also included will be image manipulation DSLR camera use, studio lighting and studio setup.

**Prerequisite: TGJ3M or TGJ3MT**

**TGV3M****Communications Technology: TV, Video  
and Movie Production  
Grade 11, University/College Preparation**

This course enables students to further develop knowledge and skills in TV, Video and Movie production. Skills in studio lighting, green screen technology, digital editing, drone flight and film, virtual reality and performance capture technology will also be included.

**Prerequisite: TGJ3M or TGJ3MT**

**TMJ3C****Manufacturing Technology  
Grade 11, College Preparation**

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

**TMJ3E****Manufacturing Technology  
Grade 11, Workplace Preparation**

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

**TTJ3C****Transportation Technology  
Grade 11, College Preparation**

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

**TTJ3O****Transportation Technology  
Grade 11, Workplace Preparation**

This general interest course enables students to become familiar with the options and features of various vehicles, issues of

registration, and the legal requirements affecting vehicle owners. Students will also learn about vehicle financing and insurance, vehicle maintenance, emergency procedures, and the responsibilities of being a vehicle owner. Students will develop an awareness of environmental and societal issues related to vehicle ownership and use, and will explore career opportunities in the transportation industry.

**TCJ4C****Construction Technology  
Grade 12, College Preparation**

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

**Prerequisite: Construction Engineering Technology, Grade 11, College Preparation**

**TCJ4E****Construction Technology  
Grade 12, Workplace Preparation**

This course enables students to further develop technical knowledge and skills related to residential construction and to explore light commercial construction. Students will continue to gain hands on experience using a variety of materials, processes, tools, and equipment; create

and interpret construction drawings; and learn more about building design and project planning. They will expand their knowledge of terminology, codes and regulations, and health and safety standards related to residential and light commercial construction. Students will also expand their awareness of environmental and societal issues related to construction technology and explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation.

**Prerequisite: Construction Technology, Grade 11, Workplace Preparation**

### **TDJ4O**

#### **Technological Design**

##### **Grade 12, Open**

This course focuses on the relationship between society and technological development. Students will use appropriate tools, techniques, and strategies to research, design, build, and assess prototypes for products and/or processes that respond to society's changing needs. Students will describe how social factors, including culture, media, politics, religion, and environmental concerns, influence technological design. Students will also learn about professional practices in the field, and will research postsecondary pathways leading to careers related to technological design.

### **TDJ4M**

#### **Technological Design**

##### **Grade 12, University/College Preparation**

This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that

meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem solving and communication skills, and explore career opportunities and the postsecondary education and training requirements for them.

**Prerequisite: Technological Design, Grade 11, University/College Preparation**

### **TFN4C**

#### **Hospitality & Tourism**

##### **Grade 12, College Preparation**

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

**Prerequisite: Hospitality and Tourism, Grade 11, College Preparation**

### **TFJ4E**

#### **Hospitality and Tourism**

##### **Grade 12, Workplace Preparation**

This course enables students to further develop knowledge and skills related to the food and beverage services sector of the tourism industry. Students will demonstrate proficiency in using food preparation and presentation tools and equipment; plan nutritious menus, create recipes, and prepare and present finished food products; develop customer service skills; and explore

event and activity planning. Students will expand their awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector.

**Prerequisite: Hospitality and Tourism, Grade 11, Workplace Preparation**

### **TGJ4M**

**Communications Technology  
Grade 12, University/College Preparation**

This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. Students may work in the areas of TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology and will investigate career opportunities and challenges in a rapidly changing technological environment. This course will be offered as a 1 credit course where students will receive 1 credit in TGJ4M or as a 2 credit course when paired with a focus course of their choice ie. (TGP4M (Photography), TGV4M (Video), or TGR4 M (Broadcast)).

**Prerequisite: Communications Technology, Grade 11, University/College Preparation**

### **TGP4M**

**Communications Technology:  
Photography and Digital Imaging  
Grade 12, University/College Preparation**

This course enables students to further develop knowledge and skills in digital imaging and photography. Also included will

be image manipulation DSLR camera use, studio lighting and studio setup.

**Prerequisite: TGJ4M or TGJ4MT**

### **TGV4M**

**Communications Technology: TV, Video and Movie Production**

**Grade 12, University/College Preparation**

This course enables students to further develop knowledge and skills in television and film production. It includes studio lighting, video creation, green screen technology, digital editing, drone flight and film, virtual reality, performance capture technology and movie production.

**Prerequisite: TGJ4M or TGJ4MT**

### **TMJ4C**

**Manufacturing Technology  
Grade 12, College Preparation**

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

**Prerequisite: Manufacturing Technology, Grade 11, College Preparation**

### **TMJ4E**

**Manufacturing Technology  
Grade 12, Workplace Preparation**

This project-driven, hands-on course builds on students' experiences in manufacturing technology. Students will further develop knowledge and skills related to the use of engine lathes, milling machines, welding

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

**Prerequisite: Manufacturing Technology, Grade 11, Workplace Preparation**

### **TTJ4C**

#### **Transportation Technology Grade 12, College Preparation**

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

**Prerequisite: Transportation Technology, College Preparation, Grade 11**

### **TTJ4E**

#### **Transportation Technology Grade 12, Workplace Preparation**

This course introduces students to the servicing, repair, and maintenance of vehicles through practical applications. The course is appropriate for all students as a general interest course to prepare them for future vehicle operation, care, and maintenance or for entry into an apprenticeship in the motive power trades.

Students will develop an awareness of environmental and societal issues related to transportation and will learn about careers in the transportation industry and the skills and training required for them.

COURSE CALENDAR 2020-2021

Central Huron  
Secondary School

