

COURSE CALENDAR 2018

**F.E. Madill
Secondary School**

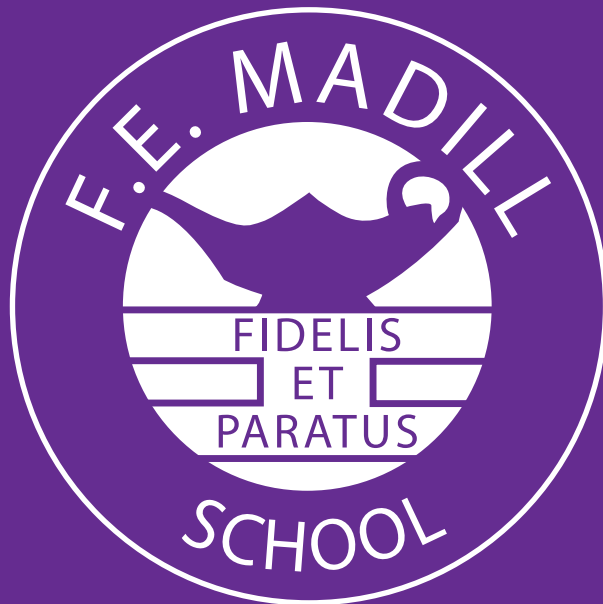


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FEMSS Course Calendar 2018

By Debbie Green - Principal of F.E. Madill Secondary School

F.E. Madill Secondary School is a progressive school offering students a high-quality, well-rounded educational experience. Our dedicated staff strive to support each individual student to achieve to high levels while maintaining a positive sense of well-being. Students learn alongside each other in an inclusive environment thereby supporting their growth in both academics and personal character.

At F.E. Madill, we provide for our students:

- » Meaningful Education
- » Quality Experiences
- » Challenge and Support

We are very proud of our Madill Graduates. As such, you will have the academic and personal skills to be successful in our ever changing world – in further education, in the workplace, in your community and in your personal relationships with others. In order to ensure all students have access to a quality program, and the opportunity to graduate in four years, students are required to be a full time student for each semester of attendance.

This course calendar outlines the many courses and programs we offer in our school to ensure each student is successful. When making your course selections, you are deciding your next steps to get closer to your future goals. To help you make a decision, research careers of interest, and talk with your parents. Consulting with your teachers and our Guidance Counsellors will help you as well. You are also encouraged to plan ahead as some of our courses are offered alternate years. You are encouraged to make your selections wisely as the selections you make have a direct impact on what courses run in the school year, and the number of qualified staff we have on site to teach these courses. If you are entering grade 9 in 2018, please take some time to talk with your grade eight teacher(s) and consider their advice. Selecting the courses that are a 'best fit' for you, will help you to be successful early in your high school career. Space in courses is limited. Making the right choice the first time will increase your chances of getting into the courses most appropriate for you and your future. Students with fewer than 16 credits must enrol in a full eight-credit timetable.

Next Generation Learning

All schools in the Avon Maitland District School Board support Next Generation Learning of our students. To ensure students develop the 21st Century Skills they will require, students in grades 7-11 are provided with a device. Typically, this device is an iPad. These iPads are the property of the



Avon Maitland District School Board, and are issued to students as an educational tool and should be used in that capacity. Students, and their families, are responsible to follow the requirements of the Board's computer use policy. In addition, students and their families are responsible for the security and care of the iPad at all times. The iPads have warranty protection, which covers the device for manufacturing defects (for two years) and provides coverage for two instances of accidental damage in the first two years, with a \$50 deductible charge for each instance. More information is provided to students and their families when the iPad is distributed to students who are registered at F.E. Madill. Information is also available on the Avon Maitland District School Board website.

English as a Second Language

The Avon Maitland District School Board recognizes that secondary ESL students face unique challenges as they pursue their secondary diploma and make the transition to full fluency in English. Students in the early stages of English acquisition may monitor courses or work for partial credits if they are not able to meet the curriculum expectations for a course. Adapted programming helps students achieve credits in courses even if their communication skills are not sufficiently developed to demonstrate their learning. ESL students may also be provided with tutoring to enable them to expand their language skills more rapidly. While students may need more than 4 years to complete their diploma, Avon Maitland District School Board students who take ESL are given the assistance they need to fulfill their long term goals.

Inter-School Athletics and Co-Curricular Programs

Clubs and Activities

Teams and activities are an important aspect of Madill's co-curricular offerings. Students who participate are able to earn points toward the school letter, "The Big M", which is based on the three prongs of academics, athletics and activities. Long after graduation, participation in co-curricular activities will bring back many positive memories.

Madill has clubs and activities for a broad range of interests and tastes including: Drama, Band, Student Council, OSAID, Peer Mentors, Peer Tutors, Mustangs Making a Difference, Chess Club, Reach For The Top, Mindfulness Group and more.

Athletics

Madill offers an opportunity for athletes to compete in a wide variety of sports. Athletes on school teams practice and play regularly under the direction of a skilled coaching staff. Depending on the activity, Madill's coaching staff holds practices

before and after the school day. Most practices are 1.5 to 2 hours in length and regular attendance is required.

The athletic year at Madill has three seasons with boys volleyball, girls basketball, cross-country running, 7's rugby, and golf offered in the fall; girls volleyball, boys basketball, Nordic skiing, hockey, curling, and swimming offered in the winter; and badminton, soccer, rugby and track and field offered in the spring.

School Support Services and Resources/Library

Special Education Services

The F.E. Madill special education department, in consultation with the school principal, offers a range of services to support exceptional students, parents/guardians and teachers. The individual learning needs of each student determine the specialized support required with academic and social inclusion as the primary goals. 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 and social/emotional respite.

The F.E. Madill special education department facilitates specialized support services through the school board and community agencies.

If you would like to discuss how our department can assist your family, please contact one of our special education resource teachers at 519-357-1800 ext. 439.

Student Success (SS)

Our goal is that every student at F.E. Madill will have the best high school experience possible. To support this, the SS Room offers an environment outside the regular classroom that is available to all students in the school. Students may use this room during class time (in collaboration with their classroom teacher) and/or during the lunch hour, to receive extra help with any academic or social difficulties they may be having. The room is supported with several computer stations, as well as a variety of classroom supplies. The SS Snack Program is offered out of the SS Room on a daily basis and is available to all students free of charge. While the SS Teacher assists students of all grade levels, there is particular focus on students who are making the transition into high school. To ensure a smooth transition, the SS teacher meets with grade 8 staff and students and also seeks assistance from senior Madill students who volunteer with the Peer Mentor Program. The SS Team, involving our principal, vice-principals, guidance counsellors, SERT, COPE teacher, and SS teachers, meets bi-weekly to address student needs. Please contact one of our SS teachers at ext 429 for more information.



Learning Commons

The F.E. Madill Library Learning Commons, which is open from 8:00am - 4:00pm, is staffed by teacher-librarians and a technical resource assistant. The resource collection includes a large array of fiction, non-fiction, reference books and magazines which are searchable by title, author, or subject using the computerised catalogue (called Destiny). The library catalogue and a number of excellent databases may be accessed from home by visiting the school's website and following the "Library's Destiny" link. Thirty computers are available in the resource center before school, during lunch, and after school for school-related use. The Library Learning Commons has a wide variety of work spaces that easily allow for quiet, individual work, and larger, more collaborative work. Students are encouraged to join the Library Learning Council where their voice will be used to inform decisions in regards to resources.

Guidance and Career Education Program

As students progress through grades 9 through 12, they will have opportunities to meet regularly with guidance counsellors who are available to assist with academic, vocational and personal concerns. Students who wish to see a guidance counsellor are encouraged to make an appointment by seeing the guidance secretary.

Grade 9 to 12 students experiencing academic difficulty in a particular course are encouraged to seek help from their teacher and then, if needed, come to the guidance office to request a peer tutor. Recommended and/or volunteer students offer help to those wishing to access this service. More information is available upon request at the guidance office.

It is essential that students have the necessary requirements for admission to the postsecondary career and/or institution which they are planning to attend. There are a number of excellent web-based planning tools for use by students and parents, as they offer insight into what is required to prepare for many different careers.

myBlueprint.ca is a tool for the Individual Pathway Plan through school and beyond and is also used in the course selection process each year. Students require a school activation key in order to set up an account for the first time. The school activation key for MyBlueprint is available in the guidance office or by contacting the school.

Hard copy information (postsecondary calendars and brochures) about colleges, universities, private schools, apprenticeships and specific careers is available on a loan basis from the guidance office.

Guidance counsellors meet with students of all grade levels in a classroom setting to discuss course selection for the upcoming school year. Many student questions will be addressed at that time. If questions or concerns are still not answered, students should make a guidance appointment following the classroom visit.

The final responsibility for the selection of courses rests with the student and parent. Again this year, course selection for grades 9 to 12 will take place online and parents will want to discuss the process with their child. During the classroom visits, students will be given a sheet of instructions on how to use the online course selection tool. Course selection must be completed no later than Wednesday, February 14, 2018 for students in grades 9 to 12. Since it may be difficult to change course selections after this date, students must choose carefully. If further help is required, feel free to contact the guidance office at 357-1800 and ask for one of the guidance counsellors - Mr. R. Stryker, Ms. J. Armstrong or Ms. C. Trick. We invite all parents/guardians to take an active role as your children plan their future at Madill and beyond.

Course Changes

Students wanting to make a course change to their existing timetables should discuss the situation with a Guidance Counsellor. A course change form will be given to the student. The form begins a process that will involve parents, teachers and the principal. Students must continue to attend the courses in their timetable until written permission is granted by the principal. Courses in this calendar will be offered where there is sufficient enrolment. All courses are worth one credit unless otherwise noted.

Student Responsibilities and Attendance

Students who fail courses or choose to withdraw from a course may jeopardize their attainment of an OSSD. Regular attendance at school is one of the most important ingredients for success in school and is critical for achievement of course expectations. Specific attendance policies and procedures at F.E. Madill are posted on the school's website under the Student Handbook tab.

Student Fees

There will be no fees or cost charged to students to participate in the regular day school program. Fees may be charged where 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 basic classroom learning resources that are required in order to complete the course expectations. It is recognized 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 expected to come to school 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).

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 the Student Council dances and activities. Students involved in co-instructional teams, groups and clubs will be made aware of any additional fund-raising obligations or participation fees prior to making a commitment to participate.

School Cash Online

School Cash Online is an online parent portal that offers a safe, fast and convenient way to pay for school activity fees. The portal allows parents to add students, make payments, check current balance / activity history, print or view receipts, and receive notifications about upcoming events.

With School Cash Online, you will be able to:

- » Pay for your child's school fees online. Anytime, anywhere.
- » Avoid the hassle of having cash on-hand to pay for school items or fees.
- » Get automatic email notifications about school fees.
- » Help us reduce the amount of cash in our schools.
- » School Cash ONline is Fast, Safe and Convenient.
- » Ontario Code of Conduct

The Ontario Code of Conduct is intended to assist students in their personal growth toward becoming mature, productive members of society. This growth should emphasize self respect, respect for the rights of others and respect for property. The most important realization for students is that each and every student is responsible for the consequences of his/her behaviour. Adherence to the Ontario Code of Conduct is the responsibility of students. Additional information and guidelines are developed for the school through the cooperation of parents, students and teachers and are posted on the school website in the student handbook.

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 including Experiential Learning. Experiential Learning programs such as Co-op, 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.

Dual Credit Offerings at Conestoga, Fanshawe and Lambton Colleges

What is a Dual Credit Program

Dual credit programs allow senior high school students the opportunity to earn high school and college credits at the same time. Students typically attend Conestoga, Fanshawe or Lambton College's campuses once a week for a fifteen week period. This unique arrangement allows you, the student, the chance to experience life and learning in a college environment and allows you to fast track towards your post-secondary goals.

Examples of dual credit offerings include:

- » Digital Photography
- » Basic Plumbing
- » Basic Electrical
- » Intro to Early Childhood Education
- » Baking & Pastry Arts
- » Health and Wellness Fundamentals
- » Recreation and Leisure

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.

What does it cost?

You pay nothing. All books, transportation and tuition are paid for through grants from the School College Work Initiative (SCWI). SCWI is a collaborative partnership between the Ministry of Education and the Ministry of Advanced Education and Skills Development.

What makes a student eligible?

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.

How do I apply?

You **MUST** be referred to the program through your School Student Success Team. Avon Maitland College partners will not accept applications directly.

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

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. You may or may not be formally registered as an apprentice while attending secondary school. 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 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 booklets can be found at INSERT: the Ontario College of Trades website. The OYAP program is funded by the Government of Ontario, Ministry of Advanced Education and Skills Development.

Fast track through an apprenticeship now and take advantage of Dual Credit and Specialist High Skills Major opportunities. See your Guidance Counsellor or Co-op teacher to apply. For more information, visit successforlife.ca/oyap and oyap.com.

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. SHSM allow

students to focus on a career path that matches their skills and interests. Visit 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).
- » 1 additional co-op credit can be substituted for one Major credit. Co-op tie-in must be within the approved bundle of credits.
- » 1 additional co-op credit can be substituted for one Other required credit. Co-op tie-in must be within the approved bundle of credits.



Construction SHSM

High Skills Major Pathway

The SHSM–Construction enables students to build a foundation of sector-focused knowledge and skills before entering apprenticeship training, college, university, or an entry-level position in the workplace.

There are four categories of work in the construction industry. Each requires the use of different equipment and workers with a variety of skills. Depending on the career chosen, a graduate could work in any or all of these categories: new home building and renovation, including building, remodeling, or renovating houses and apartment buildings; Heavy industrial construction, including building industrial facilities such as cement, automotive, chemical, or power plants, refineries, and oil-sands installations; Institutional and commercial construction, including building commercial and institutional buildings and structures such as stadiums, schools, hospitals, grain elevators, and swimming pools; civil engineering construction, including engineering projects such as highways, dams, water and sewer lines, power and communication lines, and bridges.

Health & Wellness SHSM

High Skills Major Pathway

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.

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: www.amdec.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.

Mandatory Courses by Grade

Grade 9 Course

Students in Grade 9 will take the following 8 Compulsory Credits

- » Canadian & World Studies - CGC1D or CGC1DE or CGC1P
- » English - ENG1D or ENG1DE or ENG1L or ENG1P
- » French - FSF1D or FSF1P
- » Mathematics - MPM1D or MPM1DE or MAT1L or MFM1P
- » Science - SNC1D or SNC1DE or SNC1L or SNC1P
- » Healthy Living - PPL1OM or PPL1OF

Choose Two of the following:

- » Music - AMU1O
- » Visual Arts - AVI1O
- » Drama - ADA1O
- » Introduction to Business - BTT1O
- » Social Science - HFN1O
- » Exploring Technologies - TIJ1O
- » Exploring Hairstyling & Aesthetics - TXJ1O



Grade 10 Courses

Grade 10 will take the following 5 Compulsory Credits

- » Canadian & World Studies - CHC2D or CHC2DE or CHC2L or CHC2P
- » Career Studies (.5 credit) - GLC2O
- » Civics and Citizenship (.5 credit) - CHV2O
- » English - ENG2D or ENG2DE or ENG2L or ENG2P
- » Mathematics - MPM2D or MPM2DE or MAT2L or MFM2P
- » Science - SNC2D or SNC2DE or SNC2L or SNC2P

Choose 3 Additional Credits at the Grade 10 Level

Grade 11 Courses

Students in Grade 11 will take Compulsory English and Mathematics Credits

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

- » English - ENG3C or ENG3E or ENG3U or ENG3UE
- » Mathematics - MBF3C or MEL3E or MCF3M or MCR3U or MCR3UE

Choose Up to 6 Additional Credits:

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

Grade 12 Courses

Grade 12 Students will choose a minimum of 6 Courses. All Students in Grade 12 must choose 1 English Course to Complete Diploma Requirements

- » English - ENG4C or ENG4E or ENG4U

Making Choices for Grade 11 and 12

Grade 9			
ADA1O - Drama	ALC1O - Integrated Arts	AMU1O - Music	AVI1O - Visual Arts
CGC1D - Issues in Canadian Geography	CGC1P - Issues in Canadian Geography	ENG1D - English	ENG1L - English
ENG1P - English	FSF1D - Core French	FSF1P - Core French	GLS1O - Learning Skills - UP MATH
HFN1O - Food and Nutrition	MAT1L - Mathematics	MFM1P - Foundations of Mathematics	MPM1D - Principles of Mathematics
PPL1OFE/MA - Healthy Active Living Education	SNC1D - Science	SNC1L - Science	SNC1P - Science
TIJ1O - Exploring Technologies			

Grade 10			
ADA2O - Drama	AMG2O - (alternating years only) Music (guitar)	AMU2O - Music	AVI2O - Visual Arts
BTT2O - (alternating years only) Information and OCmmunications Technology	CHC2D - Canadian History Since World War I	CHC2L - Canadian History	CHC2P - Canadian History Since World War I
CHV2O - Civics & Citizenship (.5 credit... take with GLC2O)	ELS2O - Literacy Skills	ENG2D - English	ENG2L - English
ENG2P - English	FSF2D - Core French	GLC2O - Career Studies (.5 credit... take with CHV2O)	GLD2O - (alternate years only) Discovering the Workplace
HFN2O - Food and Nutrition	MAT2L - Mathematics	MFM2P - Foundations of Mathematics	MPM2PT - Foundations of Mathematics - Construction Math, Must take with TCJ2O
MPM2D - Principles of Mathematics	PPL2OFE/MA - Healthy Active Living	SNC2D - Science	SNC2L - Science
SNC2P - Science	TCJ2O - Construction Technology	TDJ2O - Technological Design	ICS2O - Computer Science
TGJ2O - Communications Tech	TMJ2O - Manufacturing Tech	TTJ2O - Transportation Tech	TXJ2O - Hairstyling and Aesthetics



Grade 11			
ADA3M - Drama	AMU3M - Music	AVI3M - Visual Arts	AWA3O - (alternate years only) - Visual Arts - Crafts
AWQ3O - Photography	BAF3M - Financial Accounting Fundamentals	BAI3M - (alternate years only) Accounting Essentials	CGG3O - (alternate years only) - Travel and Tourism
CLU3E - Understanding Canadian Law in Everyday Life	CLU3M - Understanding Canadian Law	COP3X2/COP3X4 - Cooperative Education (2 or 4 credit)	EMS3O - Media Studies
ENG3C - English	ENG3E - English	ENG3U - English	FSF3U - Core French
GPP3O - Leadership and Peer Support	HHD3O - (alternate years only) Dynamics of Human Relationships	HSP3C - Intro to Anthropology, Psychology, Sociology	IDC3OL - Interdisciplinary Studies (Healthy Living focus)
IDC3OT - Interdisciplinary Studies (Computer/Media/Engineering focus)	MBF3C - Foundations for College Mathematics	MCF3M - Functions & Applications	MCR3U - Functions
MEL3E - Mathematics for Work and Everyday Life	NBV3E - Aboriginal Beliefs, Values, and Aspirations in Contemporary Society	PAF3O - Healthy Active Living: Personal & Fitness Activities	PPL3OFE/MA - Healthy Active Living
SBI3C - Biology	SCH3U - Chemistry	SPH3U - Physics	SVN3E - Environmental Science
SVN3M - (alternate years only) Environmental Science	TCE3E - Construction Technology: Electrical/Network Cabling	TCJ3C - Construction Technology (Female)	TCJ3E2 - Construction Technology(2 credits)
TDJ3M - Technological Design	ICS3U - Intro to Computer Science	TGJ3M - Communications Technology	TMJ3E - Manufacturing Technology
TMJ3M - Manufacturing Engineering Technology	TTJ3C - Transportation Technology	TTS3C - Transportation Technology (small engines)	TWJ3E - Custom Woodworking
TXJ3E - Hairstyling & Aesthetics			

Grade 12			
ADA4M - Drama	AMU4M - Music	AVI4M - Visual Arts	AWQ4M - Photography
BOH4M - Business Leadership: Management Fundamentals	CHY4C/4U - (alternate years only) World History Since the Fifteenth Century	COP4X2/COP4X4 - Cooperative Education (2 or 4 credit)	ENG4C - English
ENG4E - English	ENG4U - English	EWC4U - (alternate years only) The Writer's Craft	FSF4U - Core French
IDC4OL - Interdisciplinary Studies (Healthy Living focus)	IDC4OT - Interdisciplinary Studies (Computer/Media/Engineering focus)	IDC4UL - Interdisciplinary Studies (Healthy Living focus)	IDC4UT - Interdisciplinary Studies (Computer/Media/Engineering focus)
MAP4C - Foundations for College Mathematics	MCT4C - Mathematics for College Technology	MCV4U - Calculus and Vectors	MDM4U - Mathematics of Data Management
MEL4E - Mathematics for Work and Everyday Life	MHF4U - Advanced Functions	NDW4M - Issues of Indigenous Peoples in a Global Context	OLC4O - Ontario Secondary School Literacy Course
PAF4O - Healthy Active Living: Personal & Fitness Activities	PPL4O - Healthy Active Living Education	SBI4U - Biology	SCH4C - Chemistry
SCH4U - Chemistry	SNC4E - Science	SNC4M - Science	SPH4U - Physics
TCE4E - Construction Technology: Electrical/Network Cabling	TCJ4C - Construction Technology (Female)	TCJ4E2 - Construction Technology (2 credit)	TGJ4M - Communications Technology
TMJ4E - Manufacturing Technology	TMJ4M - Manufacturing Engineering Technology	TTJ4C - Transportation Technology	TTJ4E - Transportation Technology: Vehicle Maintenance
TWJ4E - Custom Woodworking	TXJ4E - Hairstyling and Aesthetics		



Course Selections 2018

The Arts

ADA10

Drama

Grade 9, Open

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

ALC10

Integrated Arts

Grade 9, Open

This course integrates two or more of the arts, giving students the opportunity to produce and present integrated art works created individually or collaboratively. Students will demonstrate innovation as they learn and apply concepts, styles, and conventions unique to the various arts and acquire skills that are transferable beyond the classroom. Students will use the creative process and responsible practices to explore solutions to integrated arts challenges. **This course is recommended for students who do not have a long-term interest in the arts, but need to fulfill the compulsory arts credit.**

AMU10

Music

Grade 9, Open

This course emphasizes the creation and performance of music at a level consistent with previous experience and is aimed at developing technique, sensitivity, and

imagination. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop an understanding of the conventions and elements of music and of safe practices related to music, and will develop a variety of skills transferable to other areas of their life.

AVI10

Visual Arts

Grade 9, Open

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

ADA20

Drama

Grade 10, Open

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

AMG2O**Music, Guitar****Grade 10, Open**

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

They will also explore the function of music in society with reference to the self, communities, and cultures. **This is an introductory course for guitar (classical or acoustic, not electric) and will include classical as well as modern guitar styles such as blues, pop, and rock; students are responsible for providing their own instrument (classical or acoustic). This course is not an alternative to AMU2O; rather, it is designed for those students who might otherwise not register for AMU2O.**

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

This course emphasizes the creation and performance of music at a level consistent with previous experience. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop their understanding of musical conventions, practices, and terminology and apply the elements of music in a range of activities. They will also explore the function of music in society with reference to the self, communities, and cultures. **This course is intended for those students who have taken AMU1O or who have extensive experience playing a wind/brass/**

percussion instrument, and will focus on developing the techniques of music reading, theory, and performance.

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

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

ADA3M**Dramatic****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**

AMU3M**Music****Grade 11, Open**

This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on,

responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers. **Prerequisite: Music, Grade 9 or 10, Open**

AVI3M

Visual Arts

Grade 11, University/College Preparation

This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using emerging technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular art form (e.g., photography, video, computer graphics, information design). **Prerequisite: Visual Arts, Grade 9 or 10, Open**

AWQ3O

Visual Arts, Photography

Grade 11, Open

Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. Students will also explore works of art within a personal, contemporary, historical, and cultural context. **NOTE: AWQ4M and AWQ3O can NOT be taken in the same year as the two classes will be offered at the same time.**

This course focuses on studio activities in digital photography through practical hands-on approaches to learning. Having their own digital SLR camera is an asset.

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

AMU4M

Music

Grade 12, University/College Preparation

This course enables students to enhance their musical literacy through the creation, appreciation, analysis, and performance of music. Students will perform traditional, commercial, and art music, and will respond with insight to live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyse how to apply skills developed in music to their life and careers. **Prerequisite: Music, Grade 11, University/College Preparation**

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 or Open**

AWQ4M

Visual Arts, Photography

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. **NOTE: AWQ4M and AWQ30 can NOT be taken in the same year as the two classes will be offered at the same time. Prerequisite: Visual Arts, Grade 11, University/College Preparation or Open, AVI3M or AWQ30**

This course will explore a wide variety of the materials, techniques and methods for digital photography through practical hands-on approaches to learning. Having their own digital SLR camera is an asset.

AWA3O

Visual Arts, Crafts

Grade 11, Open

This course focuses on studio activities in one or more of the visual arts, including drawing, painting, sculpture, photography, printmaking, collage, and/or multimedia art. Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. Students will also explore works of art within a personal, contemporary, historical, and cultural context. **This course is offered in alternate years; it is being offered in 2018-2019; but not in the 2019-2020 school year**

The focus of this course is the practical application of art skills in media such as ceramics, commercial design, and various artisan crafts.

Business

BTT2O

Information and Communications

Technology in Business

Grade 10, Open

This course introduces students to the accounting cycle of a service business. Students will use computer application software to record business transactions and to prepare financial statements. Students will also investigate banking and cash management, decision making, ethical behaviour, and career opportunities in the field of accounting. **This course is offered in alternate years; it is being offered in 2018-2019; but not in the 2019-2020 school year**

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 current issues and ethics in accounting.

BAI3E

Accounting Essentials

Grade 11, Workplace Preparation

This course introduces students to the accounting cycle of a service business. Students will use computer application software to record business transactions and to prepare financial statements. Students will also investigate banking and cash management, decision making, ethical behaviour, and career opportunities in the field of accounting. **This course is offered in alternate years; it is being offered in 2018-2019; but not in the 2019-2020 school year**

BBB4MV

International Business Fundamentals

Grade 12, University/College Preparation

This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for post-secondary programs in business, including international business, marketing, and management **This course will be offered through our Board's AMDEC eLearning services. Prerequisite: Any university, university/college, or college preparation course in business studies, English, or Canadian and world studies**

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 analyze the role of a leader in business with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility will be emphasized throughout the course. **Prerequisite: Any university, university/college, or college preparation course in business studies, English, or Canadian and world studies**

Canadian & World Studies

CGC1D

Issues in Canadian Geography

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

Issues in Canadian Geography

Grade 9, Applied

This course focuses on current geographic issues that affect Canadians. Students

will draw on their personal and everyday experiences as they explore a range of issues, including food and water supplies, competing land uses, and interactions with the natural environment, developing their awareness that issues that 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 I
Grade 10, Academic

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

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 practise 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 I
Grade 10, Applied

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

CHV2O, (0.5 Credit)
Civics and Citizenship
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. **This course must be selected with GLC20.**

CGG30

Travel and Tourism: A Geographic Perspective Grade 11, Open

This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends, as well as tensions related to tourism, and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities. **This course is offered in alternate years; it is being offered in 2018-2019; but not in the 2019-2020 school year. Prerequisite: Issues in Canadian Geography, Grade 9, Academic or Applied**

CLU3E

Understanding Canadian Law in Everyday Life Grade 11, Workplace Preparation

This course enables students to develop a practical understanding of laws that affect the everyday lives of people in Canada, including their own lives. Students will gain an understanding of the need for laws, and of their rights, freedoms, and responsibilities under Canadian law. Topics include laws relating to marriage, the workplace, cyberbullying, and criminal offences. Students will begin to

develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating legal issues that are relevant to life in Canada today. **Canadian History since World War I, Grade 10, Academic or Applied, or the locally developed compulsory course (LDCC) in Canadian history**

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**

NBV3E

Aboriginal Beliefs, Values, and Aspirations in Contemporary Society Grade 11, Workplace Preparation

This course focuses on the beliefs, values, and aspirations of Aboriginal peoples in Canada. Students will examine issues of identity facing Indian, Metis, and Inuit peoples, and their relationships to land and nature, as well as to one another within their communities and working environments. Students will also learn how traditional and contemporary beliefs and values influence the present-day aspirations and actions of Aboriginal peoples. **Prerequisite: Aboriginal Peoples in Canada, Grade 10, Open or Canadian History in the Twentieth Century, Grade 10, Academic or Applied**

CHY4C**World History Since the 15 Century
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 **This course is offered in alternate years; it is being offered in 2018-2019; but not in the 2019-2020 school year. Prerequisite: Any university, university/college, or college preparation course in Canadian and world studies, English, or social sciences and humanities**

CHY4U**World History Since the 15 Century
Grade 12, University Preparation**

This course traces major developments and events in world history since approximately 1450. Students will explore social, economic, and political changes, the historical roots of contemporary issues, and the role of conflict and cooperation in global interrelationships. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate key issues and ideas and assess societal progress or decline in world history. **This course is offered in alternate years; it is being offered in 2018-2019; but not in the 2019-2020 school year. 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 in Social Science and Humanities.**

Cooperative Education**COOP2, 2 Credits****COOP****Grade 11/12, Open**

Cooperative education is a program that allows students to explore career opportunities, gain valuable work experience, strengthen employment skills, and improve qualifications for future employment/education. Students also discover personal interests/abilities, develop confidence and obtain employment references. Time is divided between regular school classes and a work placement. Coop must be tied to a related course, preferably at the grade 11 or 12 level. Students who are responsible, dependable, and can handle the independence of combining work and school should consider going through the

application process, which occurs early in the new year; application forms are due Wednesday, February 14, 2018. Listen to the announcements or contact the coop office for more details.

COOP4, 4 Credits

COOP

Grade 11/12, Open

This cooperative education program is similar to COOP2 described above but involves a full day instead of half a day. Consequently, students may work near their home with minimal traveling expenses. Since this is a four-credit program, students must have two related courses, preferably in grade 11 or 12. There are also additional assignments which must be completed.

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 analyze literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication. The course is intended to prepare students for the grade 10 academic English course, which leads to university or college preparation courses in grades 11 and 12.

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.

ELS2O

Literacy Skills: Reading and Writing

Grade 10, Open

This course is designed to help students strengthen essential reading and writing skills, providing them with the extra literacy support they need in order to graduate. Students will read informational, graphic, and literary texts, with a focus on locating information, identifying main ideas and

supporting details, building vocabulary, and consolidating skills in the application of key comprehension strategies. The course will also help students develop core learning strategies. **Prerequisite: English, Grade 9, Academic, Applied, or Locally Developed**

This is an elective course; entry being subject to the principal's discretion. It does NOT count as a compulsory English credit.

ENG2D
English
Grade 10, Academic

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 analyze literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory grade 11 university or college preparation course. **Prerequisite: 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, or in the English Grade 11 Workplace Preparation course. The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and 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**

EMS3O
Media Studies
Grade 11, Open

This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analyzing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgment, and skills in viewing, representing, listening, speaking, reading, and writing. **This course is offered in alternate years; it is being offered in 2018-2019 ; but not in the 2019-2020 school year Prerequisite: English, Grade 10, 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 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 in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory grade 12 workplace preparation course. **Prerequisite: English, Grade 10, Applied or English, Grade 10, Locally Developed**

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

This course emphasizes the development of literacy, communication, and critical

and creative thinking skills necessary for success in academic and daily life. Students will analyze challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course. **Prerequisite: English, Grade 10, Academic**

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

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace. **Prerequisite: English, Grade 11, College Preparation**

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

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyze informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace related and

practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship. **Prerequisite: English, Grade 11, Workplace Preparation**

ENG4U
English
Grade 12, University Preparation

This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace. **Prerequisite: English, Grade 11, University Preparation**

EWC4U
The Writers Craft
Grade 12, University Preparation

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

with ETS4U; EWC4U will be offered in 2018-2019 and ETS4U will be offered in 2019-2020. Prerequisite: English, Grade 11, University Preparation

OLC4O
Ontario Secondary School Literacy Course
Grade 12, Open

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

French

FSF1D,
Core French
Grade 9, Academic

This course provides opportunities for students to communicate and interact in French with increasing independence, with a focus on familiar topics related to their daily lives. Students will develop their skills in listening, speaking, reading, and writing by using by using language-learning strategies introduced in the elementary Core

French program, and will apply creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary for life-long language learning.

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

**FSF1P,
Core French
Grade 9, Applied**

This course provides opportunities for students to communicate in French in structured situations, with a focus on everyday topics, and to apply their knowledge of French in everyday situations. Students will develop listening, speaking, reading, and writing skills introduced in the elementary Core French program, through practical applications and concrete examples, and will use creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary for lifelong language learning.

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

**FSF2D,
Core French
Grade 10, Academic**

This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics in real-life situations with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will continue to develop their language knowledge and skills through the selective use of strategies that contribute to effective communication.

They will also increase their understanding and appreciation of diverse French-speaking communities, and will continue to develop the skills necessary to become life-long language learners. **Prerequisite: Core French, Grade 9, Academic or Applied**

**FSF3U,
Core French
Grade 11, University Preparation**

This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence. Students will develop their listening, speaking, reading, and writing skills, as well as their creative and critical thinking skills, through responding to and exploring a variety of oral and written texts. They will also broaden their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning. **Prerequisite: Core French, Grade 10, Academic**

**FSF4U,
Core French
Grade 12, University Preparation**

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

Prerequisite: Core French, Grade 11, University Preparation

Guidance & Career Education

GLS10

Learning Strategies 1: UP MATH Grade 9, Open

Every student is capable of doing math! This course enables students to develop a deeper understanding of mathematical concepts covered in grade 8 so that they are better prepared for their grade 9 math course. Students will use concrete representations, effective use of technology and open tasks to explore concepts related to numeracy, measurement, proportional reasoning, and introductory algebra. They will also develop strategies to build confidence and reduce anxiety. Some student benefits are: Student driven curriculum (Curriculum for this course is determined BY the student needs), Activities centred on building student confidence and improving their "math-itude", Small group instruction, Development of collaborations skills in group formats, Timely descriptive feedback, Differentiated products to demonstrate understanding, Parallel tasks to support all levels of learners, Real-world problem solving and open tasks

Registration for this course is through consultation with the Elementary panel and the Secondary 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. **This course must be selected with CHV20**

GPP30

Leadership and Peer Support Grade 11, Open

This course prepares students to act in leadership and peer support roles. They will design and implement a plan for contributing to their school and/or community; develop skills in communication, interpersonal relations, teamwork, and conflict management; and apply those skills in leadership and/or peer support roles - for example, as a student council member or a peer tutor. Students will examine group dynamics and learn the value of diversity within groups and communities. **Students must be in grade 11 or grade 12 to choose this course.**

GLD20

Discovering the Workplace Grade 10, Open

This course provides students with opportunities to discover and develop the workplace essential skills and work habits required to be successfully employed. Students will develop an understanding of work through practical hands-on experiences in the school and in the community, using real workplace materials. They investigate occupations of interest through experiential learning opportunities, such as worksite visits, job shadowing, work experience, simulations, and entrepreneurial projects. This course helps students make plans for continued learning and work. **This course is offered in alternate years; it is being offered in 2018-2019; but not in the 2019-2020 school year.**

Health & Physical Education

PPL1OFE-PPL1OMA

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. **If numbers permit, this course will be taught as two gender-separate courses.**

PPL2OFE-PPL2OMA

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. **If numbers permit, this course will be taught as two gender-separate courses.**

PAF30

Healthy Living Education and Personal and Fitness Activities 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. **This course may be offered in the morning before school if it cannot be scheduled during the regular school day, and will emphasize fitness training and activities. If scheduled before the school day, students must arrange their own transportation to school. Students must purchase a membership at the North Huron Recreation Complex for the duration of the class.**

PPL3OFE-PPL3OMA

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. **If numbers permit, this will be taught as two gender-separate courses.**

PPZ3CV

Health for Life

Grade 11, College Preparation

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

PAF4O

Healthy Living Education and Personal and Fitness Activities 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. **This course may be offered in the morning before school if it cannot be scheduled during the regular school day, and will emphasize fitness training and activities. If scheduled before the school day, students must arrange their own transportation to school. Students must purchase a membership at the North Huron Recreation Complex for the duration of the class.**

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.

Interdisciplinary Studies

IDC3OL

Interdisciplinary Studies, Healthy Living Focus Grade 11, Open

This course will help students combine the skills required for and knowledge of different subjects and disciplines 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, students will analyse the connections among diverse subjects and disciplines; develop information literacy skills in analysing, selecting, evaluating, and communicating information; and become aware of a variety of resources and viewpoints on contemporary issues. They will also examine their own learning styles, relate their inquiries and research to real-life situations, and investigate career opportunities in new disciplines. **IDC3OL, IDC4OL and IDC4UL will focus on the development and implementation of a “Healthy and Active Lifestyle”. Some possible topics may include food, nutrition science, fitness, environment, outdoor recreation, physical health and education or working with children. Topics outside of the focus area may be chosen with teacher permission.**

IDC3OT

Interdisciplinary Studies, Computer Focus Grade 11, Open

This course will help students combine the skills required for and knowledge of different subjects and disciplines 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, students will analyse the connections among diverse subjects and disciplines; develop information

literacy skills in analysing, selecting, evaluating, and communicating information; and become aware of a variety of resources and viewpoints on contemporary issues. They will also examine their own learning styles, relate their inquiries and research to real-life situations, and investigate career opportunities in new disciplines. **IDC3OT, IDC4OT and IDC4UT will focus on computer related learning. Sample projects could include: programming, yearbook, photography, audio, video, AutoCAD, Graphic Design, Web Design, animation, etc. Recommended preparation: any computer related course. Topics outside of the focus area may be chosen with teacher permission.**

IDC4OL

Interdisciplinary Studies, Healthy Living Focus 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. **IDC3OL, IDC4OL and IDC4UL will focus on the development and implementation of a “Healthy and Active Lifestyle”. Some possible topics may include food, nutrition science, fitness, environment, outdoor recreation, physical**

health and education or working with children. Topics outside of the focus area may be chosen with teacher permission.

IDC4OT

Interdisciplinary Studies, Computer Focus 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. **IDC3OT, IDC4OT and IDC4UT will focus on computer related learning. Sample projects could include: programming, yearbook, photography, audio, video, AutoCAD, Graphic Design, Web Design, animation, etc. Recommended preparation: any computer related course. Topics outside of the focus area may be chosen with teacher permission.**

IDC4UL

Interdisciplinary Studies, Healthy Living Focus Grade 12, University Preparation

This course will help students develop and consolidate the skills required for, and knowledge of, different subjects and disciplines to solve problems, make decisions, create personal meaning and present findings beyond the scope of a

single subject or discipline. Students will apply the principles and processes of inquiry and research to effectively use a range of print, electronic and mass media resources; to analyse historical innovations and exemplary research; and to investigate real-life situations and career opportunities in interdisciplinary endeavours. They will also assess their own cognitive and affective strategies, apply general skills in both familiar and new contexts, create innovative products, and communicate new knowledge. **IDC3OL, IDC4OL and IDC4UL will focus on the development and implementation of a "Healthy and Active Lifestyle". Some possible topics may include food, nutrition science, fitness, environment, outdoor recreation, physical health and education or working with children. Topics outside of the focus area may be chosen with teacher permission.**

IDC4UT

Interdisciplinary Studies, Computer Focus Grade 12, University Preparation

This course will help students develop and consolidate the skills required for, and knowledge of, different subjects and disciplines to solve problems, make decisions, create personal meaning and present findings beyond the scope of a single subject or discipline. Students will apply the principles and processes of inquiry and research to effectively use a range of print, electronic and mass media resources; to analyse historical innovations and exemplary research; and to investigate real-life situations and career opportunities in interdisciplinary endeavours. They will also assess their own cognitive and affective strategies, apply general skills in both familiar and new contexts, create innovative products, and communicate new knowledge. **IDC3OT, IDC4OT and IDC4UT will focus on computer related learning. Sample projects**

could include: programming, yearbook, photography, audio, video, AutoCAD, Graphic Design, Web Design, animation, etc. Recommended preparation: any computer related course. Topics outside of the focus area may be chosen with teacher permission.

**GLS10,
Learning Strategies 1: UP MATH
Grade 9, Open**

Every student is capable of doing math! This course enables students to develop a deeper understanding of mathematical concepts covered in grade 8 so that they are better prepared for their grade 9 math course. Students will use concrete representations, effective use of technology and open tasks to explore concepts related to numeracy, measurement, proportional reasoning, and introductory algebra. They will also develop strategies to build confidence and reduce anxiety. Some student benefits are: Student driven curriculum (Curriculum for this course is determined BY the student needs), Activities centred on building student confidence and improving their "math-itude", Small group instruction, Development of collaborations skills in group formats, Timely descriptive feedback, Differentiated products to demonstrate understanding, Parallel tasks to support all levels of learners, Real-world problem solving and open tasks.

Registration for this course is through consultation with the Elementary panel and the Secondary Principal.

Mathematics

**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, and in the grade 10 LDCC course. The course is organized in three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to further develop their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

**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.

**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.

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 course. The course is organized in three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities. **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: Foundations of Mathematics, Grade 9, Applied or Principles of Mathematics, Grade 9, Academic

MFM2PT

Foundations of Mathematics - Construction Math

Grade 10, Applied

This course has the same description as MFM2P but is offered in conjunction with TCJ2O - Construction Technology. This course will provide the opportunity for students to make direct connections between the mathematics in MFM2P and the skills and procedures required in the construction trades. **Prerequisite: Foundations of Mathematics, Grade 9, Applied or Principles of Mathematics, Grade 9, Academic**

Students who select this course MUST also select TCJ2O.

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: Principles of Mathematics, Grade 9, Academic

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; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analyzing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry.

Students will consolidate their mathematical skills as they solve problems and communicate their thinking. **Prerequisite: Foundations of Mathematics, Grade 10, Applied ****

Students who have taken MFM2P and have achieved a final grade of 70% or above may wish to consider taking MCF3M in grade eleven.**

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 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; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: Principles of Mathematics, Grade 10, Academic

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 the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. **Prerequisite: Mathematics, Grade 9, Academic or Foundations of Mathematics, Grade 9, Applied or a Ministry-Approved Locally Developed Grade 10 Mathematics Course**

Prerequisite: Mathematics, Grade 9, Academic or Foundations of Mathematics, Grade 9, Applied or a Ministry-Approved Locally Developed Grade 10 Mathematics Course

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 analyze data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades. **Prerequisite: Foundations for College Mathematics, Grade 11, College Preparation, or Functions and Applications, Grade 11, University / College Preparation**

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, 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, or Functions, Grade 11, University Preparation** **Students who

wish to take MCT4C in grade 12 must have taken MCF3M or MCR3U in grade 11. Some college level programs, especially in science or technology, may have MCT4C as a prerequisite or a recommendation.**

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, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course. **Prerequisite: Advanced Functions (MHF4U) must be taken prior to or concurrently with Calculus and Vectors (MCV4U)**

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 and analyzing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation that integrates

statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest. **Prerequisite: Functions, Grade 11, University Preparation or 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 involving familiar situations; investigate accommodation costs, create household budgets, and prepare a personal income tax return; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. **Prerequisite: Mathematics for Work and Everyday Life, Grade 11, Workplace 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; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics.

This course is intended both for students taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs. **Prerequisite: Functions, Grade 11, University Preparation, or Mathematics for College Technology, Grade 12, College Preparation**

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, and 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 Science Grade 11 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

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

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: Science, Grade 9, Academic or Applied**

SBI3C

Biology

Grade 10, College Preparation

This course focuses on the processes that occur in biological systems. Students will

learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields. **Prerequisite: 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, or Grade 9 or 10 Locally Developed Compulsory Credit (LDCC) in Science**

SVN3M**Environmental Science****Grade 11, College/University Preparation**

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas. **This course is offered in alternate years; it is being offered in 2018-2019; but not in the 2019-2020 school year. Prerequisite: Grade 10 Science, Applied or Academic**

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

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 10 Applied or a Grade 10 Locally Developed Compulsory Credit (LDCC) in Science

SNC4M

Science

Grade 12, College/University Preparation

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

Grade 10 Science, Academic, or any Grade 11 university, university/college, or college preparation course in science.

This course may be used to meet the requirements of the Health and Wellness Specialist High Skills Major.

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**

Social Science & Humanities

HFN1O

Food and Nutrition

Grade 9, Open

This course focuses on guidelines for making nutritious food choices. Students will investigate factors that influence food choices, including beliefs, attitudes, current trends, traditional eating patterns, food

marketing strategies, and individual needs. Students will also explore the environmental impact of a variety of food choices at the local and global level. The course provides students with opportunities to develop food preparation skills and introduces them to the use of social science research methods in the area of food and nutrition. **This is the same course as HFN2O. Students cannot take both classes for credit.**

HFN2O **Food and Nutrition** **Grade 10, Open**

This course focuses on guidelines for making nutritious food choices. Students will investigate factors that influence food choices, including beliefs, attitudes, current trends, traditional eating patterns, food marketing strategies, and individual needs. Students will also explore the environmental impact of a variety of food choices at the local and global level. The course provides students with opportunities to develop food preparation skills and introduces them to the use of social science research methods in the area of food and nutrition. **Students who have already taken HFN1O cannot take this class, since it is the same course.**

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.

HHD3O **Dynamics of Human Relationships** **Grade 11, Open**

This course focuses on helping students understand the individual and group factors that contribute to healthy relationships. Students will examine the connections between their own self-concept and their interpersonal relationships. They will learn and practise strategies for developing and maintaining healthy relationships with friends, family, and community members, as well as with partners in intimate relationships. Students will use research and inquiry skills to investigate topics related to healthy relationships. **This course is offered in alternate years; it is being offered in 2018-2019; but not in the 2019-2020 school year. Prerequisite: None**

Technological Education

TIJ1O **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.

This is a multi-shop rotation, which could include communication, construction, manufacturing, design, computer engineering and automotive transportation technologies.

ICS20**Introduction to Computer Studies****Grade 10, Open**

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

TCJ20**Construction Technology,****Grade 10, Open**

This course requires students to design, build, and evaluate projects using design instruments and machine and hand tools. Students will solve technological problems through a variety of media; identify and describe building materials and other resources needed to construct, maintain, and service buildings; identify support systems and components; apply safety rules related to materials, processes, and equipment; identify common architectural styles; and identify careers related to construction technology.

TDJ20**Technological Design****Grade 10, Open**

This course requires students to design and develop innovative products and services. Students will learn the following: how to identify user needs related to specified design problems; the physical properties of selected materials and their application in

product design; techniques to create physical products and services; various presentation techniques; how to test and evaluate design solutions; and the implications of technology on the development of products or services. Students will also become aware of design-related careers. This course will cover manual drafting, architecture, and CAD software.

TGJ20**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.

TMJ20**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.

TXJ2O

Hairstyling and Aesthetics

Grade 10, Open

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

ICS3U

Introduction to Computer Science

Grade 11, University Preparation

This course introduces students to computer science. Students will design software

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

TCE3E

Construction Technology: Electrical/ Network Cabling

Grade 11, Workplace Preparation

This course has an emphasis on electrical wiring in residential homes. 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. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore postsecondary and career opportunities in the field.

Recommended preparation: Construction Technology, Grade 10, Open

TCJ3C

Construction Engineering Technology (Female)

Grade 11, College Preparation

This course enables female 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 postsecondary and career opportunities in the field.

TCJ3E2, 2 credits

Construction Technology

Grade 11, Workplace Preparation

This 2 credit course enables students to develop technical knowledge and skills related to carpentry, masonry, electrical systems, heating and cooling, and plumbing for residential construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment to design, lay out, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and will explore postsecondary and career opportunities in the field. **Certain classes of this course may be partially team-taught with a college instructor. If so, upon successful completion of the college portion of the secondary course, the student will be eligible to receive a college credit (pending approval). Recommended preparation: Construction Technology, Grade 10, Open.**

This course may be used to meet the requirements of the Construction High Skills Major.

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. **Recommended preparation: Technological Design, Grade 10, Open.**

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. **Recommended preparation: Communications Technology, Grade 10, Open**

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.

TMJ3M

Manufacturing Engineering Technology Grade 11, University/College Preparation

This course enables students to develop knowledge and skills related to design, process planning, control systems, and quality assurance. Students will use a broad range of tools and equipment and will combine modern manufacturing techniques and processes with computer-aided manufacturing as they develop critical decision-making, problem-solving, and project-management skills. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry. **Recommended preparation: Manufacturing Technology, Grade 10, Open**

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. **Recommended preparation: Transportation Technology, Grade 10, Open**

TTS3C

Transportation Technology: Small Engines and Recreational Equipment 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. **Recommended preparation: Transportation Technology, Grade 10, Open**

This is a course with an emphasis on small engine powered equipment and vehicles.

TWJ3E

Custom Woodworking Grade 11, Workplace Preparation

This course enables students to develop knowledge and skills related to cabinet making and furniture making. Students will gain practical experience using a variety of the materials, tools, equipment, and joinery techniques associated with custom woodworking. Students will learn to create and interpret technical drawings and will plan, design, and fabricate projects.

They will also develop an awareness of environmental and societal issues related to the woodworking industry, and explore apprenticeships, postsecondary training, and career opportunities in the field that may be pursued directly after graduation.

TXJ3E

Hairstyling and Aesthetics Grade 11, Workplace Preparation

This course enables students to develop knowledge and skills in cosmetology and offers a variety of applications that will equip students to provide services for a diverse clientele. Students will identify trends in the hairstyling and aesthetics industry, learn about related health and safety laws, and expand their communication and interpersonal skills through interactions with peers and clients. Students will also consider environmental and societal issues related to the industry, and will acquire a more detailed knowledge of apprenticeships and direct-entry work positions. **Recommended preparation: Hairstyling and Aesthetics, Grade 10, Open**

TCE4E

Construction Technology: Electrical/Network Cabling Grade 12, Workplace Preparation

This course enables students to further develop technical knowledge and skills related to residential electrical construction and to explore light commercial electrical construction. Students will continue to gain hands-on experience using a variety of materials, processes, tools, and equipment; create and interpret electrical drawings; and learn more about electrical 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 electrical construction. Students will also expand their awareness of environmental and societal issues related to electrical technology, and will explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation **Prerequisite: Construction Technology: Electrical/Network Cabling, Grade 11, Workplace Preparation**

TCJ4C

Construction Engineering Technology (Female) Grade 12, College Preparation

This course enables female students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment, and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. Students will also focus on environmental and societal issues related to construction engineering technology, and will explore career opportunities in the field. **Prerequisite: Construction Engineering Technology, Grade 11, College Preparation**

TCJ4E2, 2 credits

Construction Technology Grade 12, Workplace Preparation

This 2 credit course enables students to further develop technical knowledge and skills related to residential construction and to explore light commercial construction. Students will continue to gain hands-on experience using a variety of materials, processes, tools, and equipment; create and

interpret construction drawings; and learn more about building design and project planning. They will expand their knowledge of terminology, codes and regulations, and health and safety standards related to residential and light commercial construction. Students will also expand their awareness of environmental and societal issues related to construction technology, and will explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation. **Certain classes of this course may be partially team-taught with a college instructor. If so, upon successful completion of the college portion of the secondary course, the student will be eligible to receive a college credit (pending approval).** **Prerequisite: Construction Technology, Grade 11, Workplace Preparation**

This course may be used to meet the requirements of the Construction High Skills Major.

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. **Prerequisite: Communications Technology, Grade 11, University/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**

TMJ4M Manufacturing Engineering Technology Grade 12, University/College Preparation

This course enables students to further develop knowledge and skills related to design, process planning, control systems, project management, quality assurance, and business operations. Students will use a broad range of tools and equipment, enhance their skills in computer-aided design, and collaborate in managing a project. Students will critically analyse and solve complex problems involved in manufacturing products. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry. **Certain classes of this course may be partially team-taught with a college instructor. If so, upon successful completion of the college portion of the secondary course, the student will be eligible to receive a college credit (pending approval).** **Prerequisite: Manufacturing Engineering Technology, Grade 11, University/College 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, Grade 11, College Preparation**

TTJ4E**Transportation Technology:
Vehicle Maintenance****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.

Recommended Preparation: Transportation Technology, Grade 11

TWJ4E**Custom Woodworking
Grade 12, Workplace Preparation**

This course enables students to further develop knowledge and skills related to the planning, design, and construction of cabinets and furniture for residential and/or commercial projects. Students will gain further experience in the safe use of common woodworking materials, tools, equipment, finishes, and hardware, and will learn about the entrepreneurial skills needed to establish and operate a custom woodworking business. Students will also expand their awareness of health and safety issues and environmental and societal issues related to woodworking, and will explore career opportunities that may be pursued directly after graduation. **Prerequisite: Custom Woodworking, Grade 11, Workplace Preparation (or Construction Technology, Grade 11, Workplace Preparation).**

TXJ4E**Hairstyling and Aesthetics
Grade 12, Workplace Preparation**

This course enables students to develop increased proficiency in a wide range of hairstyling and aesthetics services. Working in a salon/spa team environment, students will strengthen their fundamental cosmetology skills and develop an understanding of common business practices and strategies in the salon/spa industry. Students will also expand their understanding of environmental and societal issues and their knowledge of postsecondary destinations in the hairstyling and aesthetics industry. **Prerequisite: Hairstyling and Aesthetics, Grade 11, Workplace Preparation**

COURSE CALENDAR 2018

**F.E. Madill
Secondary School**

