COURSE CALENDAR 2019-2020

South Huron District High School

Table of Contents

SHDHS Course Calendar 2019-2020

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The Avon Maitland District School Board is committed to ensuring students have the opportunity to graduate secondary school in four years and to ensuring a variety of course offerings for our students. In order to achieve both goals efficiently students need to be registered full time in each semester.

South Huron has an outstanding history of excellence in a variety of areas and we take great pride in celebrating our achievements. Since the school opened in 1950, our students have demonstrated excellence in academic achievement, in the arts, and in athletics. We proudly display the trophies, plaques, and photographs that attest to this success in the display cabinets and on the walls throughout the school. Student success is what we are about. We strive to provide programs to meet the needs of all students as they work toward their post-secondary destinations. Whether the destination is the world of work, an apprenticeship, college, or university, we have something for everyone. In addition to the core academics, we offer a full range of arts courses, a variety of technological studies courses, modern languages, business studies, cooperative education, and physical education. Our Learning Services also provides a broad range of services for students who require additional support.

South Huron District High School is proud to be a part of Exeter and all of the surrounding communities. We encourage our students to develop a greater awareness of the importance of involvement and citizenship through participation in and support of community events and organizations. We welcome and encourage community groups to visit the school, to make use of our facilities, and to work with our students to help us develop and promote a greater sense of community.

AMDSB Mission Statement & Goals

The Mission Statement of the Avon Maitland District School Board is:

- “Engage, Inspire, Innovate ….Always Learning”

Our goals are:

- To create positive, inclusive learning environments.
- To maximize student outcomes.

Learning Services at SHDHS

The Learning Services department offers a range of services to support students, parents/guardians, and classroom teachers. The individual learning needs of each student determine the specialized support, which may include: program modifications, accommodations, and direct/indirect support

from Resource teachers, student support staff, and Educational Assistants. The majority of students achieve success within the regular classroom setting through instructional, assessment, and environmental accommodations.

Resource teachers are available to:

- Assist teachers in delivering individualized support to students in the regular classroom
- Facilitate program and transition planning for students with special learning needs
- Assess special learning needs and identify needed resources/accommodations
- Aid in the development, implementation, and review of Individual Education Plans (IEPs)
- Help build accessibility of the curriculum through the use of technology

COPE

The COPE program is an alternative education program for students who have struggled to be successful in the regular school program. COPE offers students the opportunity to earn credits in two ways: through "correspondence style" courses for a range of academic credits, and through the completion of cooperative education credits. Students will attend school and will work on the correspondence style courses with the assistance of a classroom teacher. COPE students will generally work on one or two academic credits at a time. All candidates for COPE must be selected by school administration.

English as a Second Language/Student

Exchange Program

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 DSB students who take ESL are given the assistance they need to fulfill their long-term goals.

Course Changes

Students wishing to change a course should fill out the proper paperwork and submit it to the guidance/student services department. Course changes can occur at different times in the year for a variety of reasons. The normal practice is to cease

making course changes two weeks into a semester. Parental approval is required for changes if students are less than 18 years old. Course changes are not always possible after the start of the school year, and should be made as early as possible to facilitate success.

Guidance & Career Education

The Guidance and Career Education Program at SHDHS provides the skills, knowledge, and attitudes necessary for students to know and appreciate themselves, to relate effectively to others, to develop appropriate educational plans and to explore career alternatives. These objectives are met through individual interviews and classroom instruction. Student services/guidance is your liaison with community resources, post-secondary educational institutions, the world of work and with the home.

Experiential Learning

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

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

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 the student, the chance to experience life and learning in a college environment and allows the ability

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
- Basic Welding Process and Fabricating
- 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 Coop 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 counsellor or student success teacher for an up-to-date listing of course offerings and to complete 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 the OYAP participant form.

A student who participates in OYAP must have a Personalized Placement Learning Plan (PPLP) that is based on the on-the-job training requirements outlined in the government approved training standard for that trade. Training Standard competency 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 Coop 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. The Specialist High Skills Major programs 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

» Completion of Sector Partnered Contextualized Experience (SPCE) in ICE (Innovation, Creativity, Entrepreneurship), mathematical literacy or coding

Benefits to students enrolled in an 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 certifications and career-relevant training.

» 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.

Cooperative Education

Cooperative Education is a program that offers students the opportunity to extend classroom learning into supervised learning experiences in the community. Students can earn secondary school credits, which are related to specific school subjects in school as well as a dedicated Cooperative Education course. Cooperative Education programs combine a work placement component in the community, along with a classroom component. The classroom component includes a session prior to attending a placement in the community where students will engage in health and safety and well being training.

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

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.

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 Courses

Students in Grade 9 will take the following 8 Compulsory Credits

- Canadian Geography - CGC1D or CGC1P
- English - ENG1D or ENG1L or ENG1P
- French - FSF1D or FSF1P
- Mathematics - MPM1D or MAT1L or MFM1P
- Science - SNC1D or SNC1L or SNC1P
- Healthy Active Living Education - PPL1O

Choose One of the following:

- Introduction to Business - BTT1O or
- Exploring Technologies - TIJ1O

And One of the following:

- Music - AMU1O, Guitar - AMG1O, Drama - ADA1O or Visual Arts - AVI1O

Grade 10 Courses

Grade 10 will take the following 5 Compulsory Credits

- Canadian History - CHC2D or CHC2L or CHC2P
- Career Studies (.5 credit) - GLC2O
- Civics and Citizenship (.5 credit) - CHV2O
- English - ENG2D or ENG2L or ENG2P
- Mathematics - MPM2D or MFM2P or MAT2L
- Science - SNC2D 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
- Mathematics - MBF3C or MEL3E or MCF3M or MCR3U

Choose Up to 6 Additional Credits:

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

Grade 12 Courses

All Students in Grade 12 must choose 1 English Course to Complete Diploma Requirements

- English - ENG4C or ENG4E or ENG4U

Course Selections 2019-2020

The Arts

ADA1O
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.

ADA2O
Drama
Grade 10, Open
This course provided 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 through 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.

ADA3O
Drama
Grade 11, Open
This course requires students to engage in dramatic processes and the presentation of dramatic works, and emphasizes the application of drama skills in other contexts and opportunities. Students will interpret and present works in a variety of dramatic forms, create and script original works, and critically analyse the processes involved in producing drama works. Students will develop a variety of skills related to collaboration and the presentation of drama works.

ADA3M
Drama
Grade 11, University/College Preparation
This course requires students to create and perform in dramatic presentations. Students will analyze, interpret, and perform dramatic works from various cultures and time periods. Students will research various acting styles and conventions that could be used in their presentations, and analyze the functions of playwrights, directors, actors, designers, technicians, and audiences.
Prerequisite: Grade 9 or 10 Drama, Open

ADA4E
Drama
Grade 12, Workplace Preparation
This course requires students to create, present, and analyse a variety of dramatic works relevant to the workplace. Students will build trust and collaborative skills and develop self-confidence through hands-on experience and project-based learning in drama activities. Students will also explore skills related to the study of drama that can be applied in the workplace.
Prerequisite: Drama, Grade 11, Open

ADA4M
Drama
Grade 12, University/College Preparation
This course requires students to experiment individually and collaboratively with forms and conventions of both drama and theatre from various cultures and time periods. Students will interpret dramatic literature and other text and media sources while learning

about various theories of directing and acting. Students will examine the significance of dramatic arts in various cultures, and will analyze how the knowledge and skills developed in drama are related to their personal skills, social awareness and goals beyond secondary school.
Prerequisite: Grade 11 Drama, University/ College Preparation

AMG1O
Guitar Music
Grade 9, 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. This course focuses exclusively on guitar music.

AMG2O
Guitar 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. This course focuses exclusively on guitar music.

AMU1O
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.

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 a 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 functions of music in society with reference to the self, communities, cultures.

AMU3M
Music
Grade 11, University/College Preparation
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 creation process when performing appropriate

technical exercises and repertoire and will employ you're the critical analysis processes when reflecting on, responding to and analyzing live and recorded performances. This 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 lives and careers.
Prerequisite: Grade 9 or 10 Music, Open

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 through live and recorded performances. Students will enhance their understanding of the function of music in society and the impact of music on themselves and various communities and cultures. Students will analyze how to apply skills developed in music to their lives and careers.
Prerequisite: Grade 11 Music, University/ College Preparation or Open

AVI1O
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.

AVI2O
Visual Arts
Grade 10, Open
This course emphasizes students to develop their skills in producing and presenting art by introducing them to new ideas, materials, processes for artistic exploration and experimentation. Students will apply 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.

AVI3O
Visual Arts
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.

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 emergent technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a

program focused on a particular art form (e.g. Photography, video, computer graphics, information design)
Prerequisite: Visual Arts, Grade 10 Open (AVI2O)

AVI4E
Visual Arts
Grade 12, Workplace Preparation
This course focuses on a practical approach to a variety of art and design projects related to the workplace. Students will use the creative process to produce a traditional and/or digital portfolio of their work in a variety of media. Students may focus on various aspects of visual arts, including advertising, ceramics, fashion design, graphic arts, jewellery design, and/or web design.
Prerequisite: Visual Arts, Grade 11, Open

AVI4M
Visual Arts
Grade 12, University/College Preparation
This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts.
Prerequisite: Grade 11 Visual Arts, University/College Preparation

Business

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 business, financial analysis and current issues and ethics in accounting.

BMI3C
Marketing: Goods, Services and Events
Grade 11, College Preparation
This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice.

BTT1O
Information and Communication Technology in Business
Grade 9, Open
This course introduces students to information and communication technology in a business environment and builds a foundation of digital literacy skills necessary for success in a technologically driven society. Students will develop word processing, database, presentation software, and website design skills. Throughout the course, there is an emphasis on digital literacy, effective electronic research and

communication skills, and current issues related to the impact of information and communication technology.

BTT2O
Information and Communication Technology In Business
Grade 10, Open
This course introduces students to information and communication technology in a business environment and builds a foundation of digital literacy skills necessary for success in a technologically driven society. Students will develop word processing, spreadsheet, database, desktop publishing, presentation software, and website design skills. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communication skills, and current issues related to the impact of information and communication technology.
This course cannot be taken for credit if the student also has credit in BTT1O.

ICS2O
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.

ICS3C
Introduction to Computer Programming
Grade 11, College Preparation
This course introduces students to computer programming concepts and practices. Students will write and test computer programs, using various problem-solving strategies. They will learn the fundamentals of program design and apply a software development life-cycle model to a software development project. Students will also learn about computer environments and systems, and explore environmental issues related to computers, safe computing practices, emerging technologies, and post-secondary opportunities in computer-related fields.

ICS3U
Introduction to Computer Science
Grade 11, University Preparation
This course introduces students to computer science through the creation of Android tablet and phone apps. 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 apps 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.

ICS4C
Computer Programming
Grade 12, College Preparation
This course further develops students' computer programming skills. Students will learn object oriented programming concepts, create object oriented software

solutions, and design graphical user interfaces. Student teams will plan and carry out a software development project using industry-standard programming tools and proper project management techniques. Students will also investigate ethical issues in computing, and expand their understanding of environmental issues, emerging technologies, and computer related careers.
Prerequisite: Introduction to Computer Programming, Grade 11, College Preparation

ICS4U
Computer Science
Grade 12, University Preparation
This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyse algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.
Prerequisite: Introduction to Computer Science, Grade 11, University Preparation

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 Since World War I
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 and inquiry skills. Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian identity, internal and external relationships, and changes since 1914, are explored through guided investigation. Students have the opportunity to extend analytical skills with a focus on identifying and interpreting events and perspectives and making connections. Students practice reading, writing, visual, and oral literacy skills, and mathematical literacy skills to identify and communicate ideas in a variety of forms.

CHC2P
Canadian History Since World War 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.

CLU3M
Understanding Canadian Law
Grade 11, University/College 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 the processing of criminal offences. Students will apply the concepts of legal thinking and the legal inquiry process, and will begin to develop legal reasoning skills and an understanding of Canadian law.
Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied

CLN4C
Legal Studies
Grade 12, College Preparation
This course provides a foundation for students who wish to pursue a career that requires an understanding of law. Students will explore the importance of law, analysing contemporary legal issues and their impact. They will investigate requirements for various law-related careers as well as legal responsibilities in the workplace. Students will apply the concepts of legal thinking and the legal inquiry process to investigate the role of law in a changing society and will develop conflict-resolution skills needed for negotiation.
Prerequisite: Civics and Citizenship, Grade 10.

CLN4U
Canadian and International Law
Grade 12, University Preparation
This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop their understanding of the principles of Canadian and international law when exploring rights and freedoms within the context of topics such as religion, security, cyberspace, immigration, crimes against humanity, and environmental protection. Students will apply the concepts of legal thinking and the legal inquiry process when investigating these issues in both Canadian and international contexts, and they will develop legal reasoning skills and an understanding of conflict resolution in the area of international law.
Prerequisite: Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.

Cooperative Education

COP4X2 (2 credit)
Cooperative Education
Grades 11 and 12, Open
This cooperative education course includes a classroom component where students will create effective resumes and cover letters, complete job applications, demonstrate the ability to respond appropriately to questions posed by an employer during an interview session, gain an understanding of safety in the workplace and employees' and employers' rights and responsibilities, as well as develop an understanding of issues related to confidentiality, labour unions, the Employment Standards Act and the Human Rights Act. The placement component of the course provides the opportunity for the student to apply and further develop the knowledge and skills acquired in the related course while participating as an employee in a workplace setting. Throughout the term, students will return to the classroom for sessions, which are designed to provide them with the opportunity to reflect on and analyze their placement experience as well as research career information, labour market trends and the nature of the workplace in the future including the changing role of men and women at work. OYAP is also a possibility for these students.

COP4X4 (4 credit)
Cooperative Education
Grades 11 and 12, Open
A 4-credit Coop option may be possible and is strongly recommended for students considering placements in the Construction, Industrial and Motive Power Trades. Students selecting this option will still complete the classroom and integration components as outlined in the above course description (COP4X2 Cooperative Education 2-credit)

but will be able to report to their placements for the entire day once the placement component of the course begins. Attempts will be made to timetable students into this course but individual credit requirements may interfere with a student's ability to enrol in this 4-credit Coop opportunity.

English

ENG1D
English
Grade 9, Academic
This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts, and create oral, written, and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication. The course is intended to prepare students for the Grade 10 academic English course, which leads to university or college preparation courses in Grades 11 and 12.

ENG1L
English
Grade 9, Locally Developed
This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the Grade 10 LDCC course. The course is organized into strands that develop listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and on using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

ENG1P
English
Grade 9, Applied
This course is designed to develop the key oral communication, reading, writing, and media literacy skills students need for success in secondary school and daily life. Students will read, interpret, and create a variety of informational, literary, and graphic texts. An important focus will be on identifying and using appropriate strategies and processes to improve students' comprehension of texts and to help them communicate clearly and effectively. The course is intended to prepare students for the Grade 10 applied English course, which leads to college or workplace preparation courses in Grades 11 and 12.

ENG2D
English
Grade 10, Academic
This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.
Prerequisite: English, Grade 9 Academic or Applied

ENG2L
English
Grade 10, Locally Developed
In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, in the English, Grade 11, Workplace Preparation course, or in the English: Contemporary Aboriginal Voices, Grade 11, Workplace Preparation course. The course is organized into strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and on using language clearly and accurately in a variety of authentic contexts. Students build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing, and thinking. Students reflect regularly upon their growth in these areas.
Prerequisite: Any Grade 9 English credit

ENG2P
English
Grade 10, Applied
This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in secondary school and daily life. Students will study and create a variety of informational, literary, and graphic texts. An important focus will be on the consolidation of strategies and processes that help students interpret texts and communicate clearly and effectively. This course is intended to prepare students for the compulsory Grade 11 college or workplace preparation course.
Prerequisite: English, Grade 9, Academic or Applied

ENG3C
English
Grade 11, College Preparation
This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for student success in academic and daily life. Students will study the content, form, and style of a variety of informational and graphic texts, as well as literary texts from Canada and other countries, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity. The course is intended to prepare students for the compulsory Grade 12 college preparation course.
Prerequisite: English, Grade 10, Applied

ENG3E
English
Grade 11, Workplace Preparation
This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.
Prerequisite: English, Grade 10, Applied

ENG3U
English
Grade 11, University Preparation
This course emphasizes the development of literacy, communication and critical and creative thinking skills. Students will analyse

challenging literary texts from various periods, countries and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course.

Prerequisite: English, Grade 10, Academic

ENG4C
English
Grade 12, College Preparation

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

Prerequisite: English, Grade 11, College Preparation

ENG4E
English
Grade 12, Workplace Preparation

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

Prerequisite: English, Grade 11, Workplace Preparation

ENG4U
English
Grade 12, University Preparation

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

Prerequisite: English, Grade 11, University Preparation

EWC4UV
English
Grade12, University

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.
Prerequisite: English, Grade 11, University Preparation - This course will be offered through our Board's AMDEC eLearning services.

OLC4O
Ontario Literacy Course
Grade 12, Open
This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.
Eligibility requirement: Students who have been eligible to write the OSSLT at least twice and who have been unsuccessful at least once are eligible to take the course. *(Students who have already met the literacy requirements 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 continue to develop language knowledge and skills 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 to become life-long language learners.
Prerequisite: Minimum of 600 hours of elementary Core French instruction, or equivalent

FSF1P
Core French
Grade 9, Applied
This course provides opportunities for students to communicate and interact in French in structured situations on everyday topics and to apply their knowledge of French in everyday situations. Students will continue to develop language knowledge and 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 to become life-long language learners.
Prerequisite: Minimum of 600 hours of elementary Core 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 creative and critical thinking skills through responding to and exploring a variety of oral and written texts. They will continue to broaden their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long 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 apply language-learning strategies in a wide variety of real-life situations, and will continue to develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. Students will also continue to enrich their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning.
Prerequisite: Core French, Grade 11, University Preparation.

Guidance & Career Ed

GLS1O
Learning Strategies 1: Skills for Success in Secondary School
Grade 9, Open
This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.
Prerequisite: Recommendation of Principal

GLC2O (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.

Health & Physical Education

PPL1O
Healthy Active Living Education
Grade 9, Open
This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

PPL2O
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.

PAF2O
Personal and Fitness Activities
Grade 10, Open
This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage student' interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills and will be given opportunities to practice goal-setting, decision-making, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety. This course will focus on the development of personal physical fitness through a variety of fitness activities.

PAF3O
Personal and Fitness Activities
Grade 11, Open
This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students‰Ûª interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills and will be given opportunities to practice goal-setting, decision-making, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety. This course will focus on the development of personal physical fitness through a variety of fitness activities.

PAF4O
Personal and Fitness Activities
Grade 12, Open
This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that

have the potential to engage students‰Ûª interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills and will be given opportunities to practice goal-setting, decision-making, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety. This course will focus on the development of personal physical fitness through a variety of fitness activities.

PPL3O
Healthy Active Living Education
Grade 11, Open
This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

PPL4O
Healthy Active Living Education
Grade 12, Open
This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

Interdisciplinary Studies

IDC3O
Interdisciplinary Studies
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.

IDC4U
Interdisciplinary Studies
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.

Prerequisites: any university or university/college preparation course

IDC4O
Interdisciplinary Studies
Grade 12, 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.

Mathematics

MPM1D
Principles of Mathematics
Grade 9, Academic

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

MAT1L
Mathematics
Grade 9, Locally Developed

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

MFM1P
Foundations of Mathematics
Grade 9, Applied
This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

MPM2D
Principles of Mathematics
Grade 10, Academic
This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
Prerequisite: Grade 9 Mathematics: Academic

MAT2L
Mathematics
Grade 10, Locally Developed
This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Grade 11 Mathematics Workplace Preparation courses. The course is organized in three major strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.
Prerequisite: A Grade 9 Mathematics credit

MFM2P
Foundations of Mathematics
Grade 10, Applied
This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: Grade 9 Mathematics: Applied or 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, as well as of measurement and geometry; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; and develop their ability to reason by collecting, analyzing, and evaluating data involving one and two variables. Students will consolidate their mathematical skill as they solve problems and communicate their thinking.

Prerequisite: Foundations of Mathematics, Grade 10, Applied

MCF3M
Functions and Applications
Grade 11, University/College Preparation

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

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

MCR3U
Functions
Grade 11, University Preparation

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

Prerequisite: Principles of Mathematics, Grade 10, Academic

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: Principles of Mathematics, Grade 9, Academic, or Foundations of Mathematics, Grade 9, Applied, or mathematics, locally developed, Grade 10

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; 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

MCV4U
Calculus and Vectors
Grade 12, University Preparation
This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential, and sinusoidal functions; and apply these concepts and skills to the modelling of real world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.
Prerequisite: Note: Advanced Functions, Grade 12, University Preparation, must be taken prior to or concurrently with Calculus and Vectors.

MDM4U
Mathematics of Data Management
Grade 12, University Preparation
This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.
Prerequisite: Functions, Grade 11, University Preparation, or Functions and Applications, Grade 11, University/College Preparation *(This course will be offered in alternate years. It will be offered in 2019-20, but not in 2020-21)*

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 and create household budgets; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

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

MHF4U
Advanced Functions
Grade 12, University Preparation

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

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

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 Grade 11 Science Workplace Preparation course. Students explore a range of topics, including science in daily life, properties of common materials, life-sustaining processes in simple and complex organisms, and electrical circuits. Students have the opportunity to extend mathematical and scientific process skills and to continue developing their skills in reading, writing, and oral language through relevant and practical science activities.

SNC1P
Science
Grade 9, Applied

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students

will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems; the structure and properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.

SNC2D
Science
Grade 10, Academic
This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid-base reactions; forces that affect climate and climate change; and the interaction of light and matter.
Prerequisite: Science, Grade 9, Academic or Applied

SNC2L
Science
Grade 10, Locally Developed
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 Grade 11 Science Workplace Preparation course. Students explore a range of topics, including science in 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: Any Grade 9 Science Credit

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

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. Special Note: This course will be offered in alternating years. It will run in 2020-2021, but not in 2019-2020.

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 Chemistry

SPH4C
Physics
Grade 12, College Preparation
This course develops studentsâ€™ 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 analyze, qualitatively and quantitatively, data relating to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.
Prerequisite: Physics, Grade 11 University Preparation - Special Note: This course will be offered in alternating years. It will run in 2019-2020, but not in 2020-21.

Social Science & Humanities

HPC3O
Raising Healthy Children
Grade 11, Open
This course focuses on the skills and knowledge parents, guardians, and caregivers need, with particular emphasis on maternal health, pregnancy, birth, and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with them, and effectively guide their early behaviour. Students will develop their research skills through investigations related to caregiving and child rearing.

HSP3U
Introduction to Anthropology, Psychology, and Sociology
Grade 11, University/College Preparation
This course provides students with opportunities to think critically about theories, questions, and issues related to anthropology, psychology, and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives, to conduct social science, and to become familiar with current thinking on a range of issues within the three disciplines.
Prerequisite: The Grade 10 academic course in English or the Grade 10 academic history course (Canadian and world studies)

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.

HHS4C
Families in Canada
Grade 12, College Preparation
This course enables students to develop an understanding of social science theories as they apply to individual development, the development of intimate relationships, and family and parent-child relationships. Students will explore a range of issues relating to the development of individuals and families in contemporary Canadian society as well as in other cultures and historical periods. They will develop the investigative skills required to conduct research on individuals, intimate relationships, and parent-child roles and relationships in Canada.
Prerequisite: Any university, college, or university/college preparation course in social sciences and humanities, English, or Canadian and world studies.

HHS4U
Families in Canada
Grade 12, University Preparation
This course enables students to draw on sociological, psychological, and anthropological theories and research to analyse the development of individuals, intimate relationships, and family and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. They will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. They will develop the investigative skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships.
Prerequisite: Any university or university/college preparation course in social sciences and humanities, English, or Canadian and world studies.

HIP4O
Personal Life Management
Grade 12, Open
This course focuses on preparing students for living independently and working successfully with others. Students will learn

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

NDW4M
Issues of Indigenous Peoples in a Global Context
Grade 12, University/College Preparation
This course provides students with an overview of the issues and challenges that confront indigenous peoples worldwide. Students will develop an understanding of the concerns and aspirations of the world‰Ûªs indigenous population, plan and conduct research on global issues that have an impact on indigenous peoples, and use information technology to consult materials related to the views of indigenous peoples throughout the world.

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.

TCJ2O
Construction Technology
Grade 10, Open
This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes;and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and postsecondary pathways leading to careers in the industry.

TDJ2O
Technological Design
Grade 10, Open
This course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/ or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technology, and will explore secondary and postsecondary

pathways leading to careers in the field.

TFJ2O
Hospitality and Tourism
Grade 10, Open
This course provides students with opportunities to explore different areas of hospitality and tourism as reflected in the various aspects of the tourism industry, with an emphasis on food service. Students will study culinary techniques of food handling and preparation, health and safety standards, the use of tools and equipment, the origins of foods, and event planning, and will learn about tourism attractions across Ontario. Students will develop an awareness of related environmental and societal issues, and will explore secondary and postsecondary pathways leading to careers in the tourism industry.

TGJ2O
Communications Technology
Grade 10, Open
This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/video and movie production, radio and audio production, print and graphic communications, photography, and animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology and explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.

TMJ2O
Manufacturing Technology
Grade 10, Open
This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection moulding. Students will develop an awareness of environmental and societal issues related to manufacturing, and will explore 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.

TCJ3C
Construction Engineering Technology
Grade 11, College Preparation
This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore career opportunities in the field.
Prerequisite: None, but TCJ2O is recommended.

TCJ3E
Construction Technology
Grade 11, Workplace Preparation
This course enables students to develop technical knowledge and skills related to carpentry, masonry, electrical systems, heating and cooling, and plumbing for residential construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment to design, lay out, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore postsecondary and career opportunities in the field.
Prerequisite: None, but TCJ20 is recommended

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.
Prerequisite: None but TDJ20 is recommended

TDJ3O
Technological Design and the Environment
Grade 11, Open
This course enables students to apply a systematic process for researching, designing, building, and assessing solutions to address specific human and environmental challenges. Through their work on various projects, students will explore broad themes that may include aspects of industrial design, mechanical design, architectural design, control system design, and/or apparel design. Students will

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

Prerequisite: None, but TDJ2O is recommended

TFJ3E
Hospitality and Tourism
Grade 11, Workplace Preparation

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

TFJ3C
Hospitality and Tourism
Grade 11, College Preparation

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

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.

TGJ3O
Communications Technology: Broadcast and Print Production
Grade 11, Open

This course enables students to develop knowledge and skills in the areas of graphic communication, printing and publishing, audio and video production, and broadcast journalism. Students will work both independently and as part of a production team to design and produce media products in a project-driven environment. Practical projects may include the making of signs, yearbooks, video and/or audio productions, newscasts, and documentaries. Students will also develop an awareness of related environmental and societal issues, and will explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.

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.
Prerequisite: None but TMJ2O is recommended

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.
Prerequisite: None but TMJ2O is recommended

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.
Prerequisite: None but TTJ2O is recommended

TXJ3E
Hairstyling and Aesthetics
Grade 11, Open
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.

TCJ4C
Construction Engineering Technology
Grade 12, College Preparation
This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will

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

Prerequisite: Construction Engineering Technology, Grade 11, College Preparation

TCJ4E
Construction Technology
Grade 12, Workplace Preparation

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

Prerequisite: Construction Technology, Grade 11, Workplace Preparation

TDJ4M
Technological Design
Grade 12, University/College Preparation

This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem solving and communication skills, and explore career opportunities and the postsecondary education and training requirements for them.

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

TDJ4O
Technological Design in the Twenty-First Century
Grade 12, Open

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

TFJ4C
Hospitality and Tourism
Grade 12, College Preparation
This course enables students to further develop knowledge and skills related to the various sectors of the tourism industry. Students will demonstrate advanced food preparation and presentation skills; increase health and wellness knowledge; develop tourism administration and management skills; design and implement a variety of events or activities; and investigate principles and procedures that contribute to high-quality customer service. Students will expand their awareness of health and safety issues, environmental and societal issues, and career opportunities in the tourism industry.
Prerequisite: Hospitality and Tourism, Grade 11, College Preparation

TFJ4E
Hospitality and Tourism
Grade 12, Workplace Preparation
This course enables students to further develop knowledge and skills related to the food and beverage services sector of the tourism industry. Students will demonstrate proficiency in using food preparation and presentation tools and equipment; plan nutritious menus, create recipes, and prepare and present finished food products; develop customer service skills; and explore event and activity planning. Students will expand their awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector.
Prerequisite: Hospitality and Tourism, Grade 11, Workplace Preparation.

TGJ4M
Communications Technology
Grade 12, University/College Preparation
This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. Students may work in the areas of TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology and will investigate career opportunities and challenges in a rapidly changing technological environment.
Prerequisite: Communications Technology, Grade 11, University/College Preparation

TGJ4O
Communications Technology: Digital Imagery and Web Design
Grade 12, Open
This course enables students to develop knowledge and skills in the areas of photography, digital imaging, animation, 3D modeling, and web design. Students will work both independently and as part of a production team to design and produce media products in a project-driven environment. Practical projects may include photo galleries, digital images, animations, 3D models, and websites. Students will also expand their awareness of environmental and societal issues related to communications technology, and will explore postsecondary education, training, and career opportunities.

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 tools and equipment as they design and fabricate solutions to a variety of technological challenges in manufacturing. Students may also 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
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, College Preparation, Grade 11

TTJ4C2 2 Credits
Transportation Technology
Grade 12, College Preparation
This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; power trains; steering/ control, suspension, brake, and body systems on vehicles, aircraft, and/or watercraft; and/ or small engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry.
Prerequisite: Transportation Technology, College Preparation, Grade 11

TTJ4E
Transportation Technology: 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.

COURSE CALENDAR 2019-2020

South Huron District High School