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Principal Message:

Clarington Central Intermediate & Secondary School is a dynamic school with a great deal of options and pathways for all students. I encourage you to take a close look at the course offerings in this calendar. We have strived to provide a plethora of course options in an attempt to meet the needs of all student learners. We encourage all students to talk with parents, teachers, admin and guidance to help them plan for their preferred future. We have a number of specialized programs including Specialist High Skills Majors in: Arts & Culture, Business, Hospitality, and Environmental. This calendar has been prepared to assist both new and returning students to CCISS with the process of course selection.

It is important that you carefully read all of the information contained in this calendar. Once a timetable has been established in a secondary school, it is extremely difficult to adjust your schedule. For a course to be scheduled, there must be sufficient requests from students.

Your course selections should be based on: Diploma Requirements, Career Destinations, Appropriate Course Type, Individual Interests, Course Prerequisites, Abilities, and in consultation with Teachers, Parents, Special Education and Guidance Staff.

Plan carefully for your 2020-2021 school year. Remember success in school comes down to three basic things - 1. Be in Class, 2. Work Hard and 3. Ask for Help whenever needed.

Best of luck on a successful school year from your Administrative Team

J. Watt, S. Jordan & K. Zinkewich

DIPLOMA REQUIREMENTS

Ontario Secondary School Diploma

The Ontario Secondary School Diploma is granted to students who meet the provincial literacy requirement, complete 40 hours of community involvement activities, and earn 30 credits distributed as follows:

Compulsory Credits (total of 18)

- 4 credits in English
- 3 credits in mathematics
- 2 credits in science
- 1 credit in Canadian geography
- 1 credit in Canadian history
- 1 credit in the arts
- 1 credit in health and physical education
- 1 credit in French as a second language
- 0.5 credit in career studies
- 0.5 credit in civics
- 1 credit from Group 1
- 1 credit from Group 2
- 1 credit from Group 3

Elective Credits (total of 12)

Group 1: additional credit in English, or French as a second language, or a Native language, or a classical or international language, or social sciences and the humanities, or Canadian and World Studies, or guidance and career education, or cooperative education (i.e., course codes beginning with the following letters: E, F, L, H, C, G, or coop)

Group 2: additional credit in health and physical education, or the arts, or business studies, or French as a second language, or cooperative education (i.e., course codes beginning with P, A, B, F, or coop)

Group 3: additional credit in science (gr. 11 or 12), or technological education, or French as a second language, or computer studies, or cooperative education (i.e., courses beginning with S, T, F, or I, or coop)

NOTES:

- Students who are unsuccessful on the Ontario Secondary School Literacy Test (OSSLT) may take a course (OSSLC) to meet the literacy requirement. This course can also be counted as one of the 4 compulsory English courses.
- A maximum of 3 credits in English as a second language (ESL) or English literacy development (ELD) may be counted towards the 4 compulsory credits in English, but the fourth must be a credit earned for a grade 12 compulsory English course.
- In groups 1, 2 and 3, a maximum of 2 credits in French as a second language can count as compulsory credits, one from group 1 and one from either group 2 or group 3.
- A maximum of 2 credits in cooperative education can count as compulsory credits, although there is no limit to the number coop credits which can be used as elective credits.
- The 12 optional credits can include up to 4 credits earned through approved dual credit courses.

Ontario Secondary School Certificate

The Ontario Secondary School Certificate is granted upon request to students who leave school before earning the Ontario Secondary School Diploma, provided that they have earned a minimum of 14 credits* distributed as follows:

Compulsory credits (total of 7)

- 2 credits in English
- 1 credit in Canadian geography or Canadian history
- 1 credit in mathematics
- 1 credit in science
- 1 credit in health and physical education
- 1 credit in the arts or technological education

Plus:

Optional credits (total of 7)

7 credits selected by the student from available courses

*A credit is a means of recognition of the successful completion of a course for which a minimum of 110 hours has been scheduled. A credit is granted to a student by the principal of a secondary school on behalf of the Minister of Education.

The Certificate of Accomplishment

Students who leave school before fulfilling the requirements for the Ontario Secondary School Diploma or the Ontario Secondary School Certificate may be granted a Certificate of Accomplishment. The Certificate of Accomplishment is a way of recognizing achievement for students who plan to take certain vocational programs or other kinds of further training, or who plan to find employment after leaving school.

The Ontario Secondary School Literacy Diploma Requirement

Students will be required to successfully complete the Grade 10 Provincial Secondary School Literacy Test. This test will measure basic levels of literacy and will be based on the literacy expectations up until the end of grade 9. Students who are unsuccessful or who have been deferred at least one time will be required to participate in a remedial class. Secondary school diplomas will **only** be awarded to students who successfully complete this test or the Ontario Literacy Course (OLC4OL) in grade 12.

Accommodations must be made for students taking the test who have an Individual Education Plan (I.E.P.) that describes accommodations which the student actually uses on a daily basis for assignments and assessments. This will ensure that students who are taking special education programs will have a fair and equal opportunity to successfully complete the test. The actual content of the test must not be altered.

Deferrals may be granted by the principal to students who have not yet acquired a level of proficiency in English to successfully complete the reading and writing skills appropriate to grade 9.

Exemptions may be granted by the principal to students who have an Individual Education Plan (I.E.P.) and are **not** working toward an Ontario Secondary School Diploma.

Substitutions for Compulsory Credits

In order to allow flexibility in designing a student's program and to ensure that all students can qualify for the secondary school diploma, substitutions may be made for a limited number of

compulsory credit courses using courses from the remaining courses offered by the school that meet the requirements for compulsory credits. To meet individual students' needs, principals may replace up to three of these courses (or the equivalent in half courses) with courses from the remainder of those that meet the compulsory credit requirements. In all cases, however, the sum of compulsory and optional credits will not be less than thirty for students aiming to earn the Ontario Secondary School Diploma, and not less than fourteen for those aiming to earn the Ontario Secondary School Certificate.

Community Involvement Diploma Requirement

As part of the diploma requirements, students must complete a minimum of 40 hours community involvement activities. These activities may be completed the summer of their grade 8 year and at any time during their years in the secondary school program. **However, in order not to jeopardize fall admission to post-secondary institutions and to ensure graduation at Commencement, the official "Completion of Community Involvement Activities" form must be completed and submitted to the Guidance Office by May 31st.** The purpose of the community involvement requirement is to encourage students to develop awareness and understanding of civic responsibility and the important role they can play in supporting, strengthening, and serving their communities.

Community activities may take place in a variety of settings including not-for-profit organizations, public sector institutions and informal settings. Some potential activities are posted in Guidance. Students may not receive credits towards the OSSD (for example, Cooperative education or work experience) or perform the duties of a paid worker for any community involvement activity. Community involvement must be completed outside students' normal instructional hours; activities should take place during lunch hours, after school, on weekends or during school holidays. The following website provides possible opportunities for community involvement:

www.ClaringtonVolunteers.ca

Community involvement forms required for recording activities are found in the guidance department and on our website. **Students who are unsure about the appropriateness of their planned activities should speak with guidance or the principal.**

TYPES OF SECONDARY SCHOOL COURSES

The secondary school curriculum is organized into several types of courses, which are intended to enable students to choose courses that are suited to their strengths, interests, and goals.

Types of Courses in Grades 9 and 10

Students in grades 9 and 10, in consultation with their parents and teachers, will choose **enriched, academic, applied** or **essential** courses in the following subjects: English, French, geography, history, mathematics, and science. All other grade 9 and 10 courses are **open**. The selection of courses for an exceptional student should be guided by parents, teachers, Special Education staff, and by information in the student's Individual Education Plan. The four types of courses in grades 9 and 10 are defined as follows:

Academic courses develop students' knowledge and skills through the study of theory and abstract problems. These courses focus on the essential concepts of a subject and explore related concepts as well. They incorporate practical applications as appropriate.

Applied courses focus on the essential concepts of a subject, and develop students' knowledge and skills through practical applications and concrete examples. Familiar situations are used to illustrate ideas, and students are given more opportunities to experience hands-on applications of the concepts and theories they study.

(Note: Both types of courses set high expectations for students while preparing them for studies in the senior grades. The two types of courses differ in the balance between essential concepts and additional material, and in the balance between theory and application. In planning courses of study, teachers take into account the need to adapt instructional approaches and materials to reflect the differences between the two course types.)

Open courses are designed to prepare students for further study in a subject, and to enrich their education generally. Open courses comprise a set of expectations that are appropriate for all students.

Essential/Locally Developed

School boards may apply for permission to offer courses that have been designed to meet the particular needs of the students in their schools. Such a course may not be described in a ministry curriculum policy document, and may not meet the compulsory graduation requirements as set out above. School boards **are** allowed to develop one course in each of grade 9 English, mathematics and science and in grade 10 English, mathematics, and history that **are** acceptable as compulsory courses. A student may count no more than six such courses as compulsory credits. Students who are successful in grade 9 applied math will be able to proceed to grade 10 academic math **only** upon successful completion of a .5 credit transfer course. (More information on transfer courses on p.6)

Types of Courses in Grades 11 and 12

Students in grades 11 and 12, will choose from among destination-related course types: **university** preparation, **university/college** preparation, **college** preparation and **workplace** preparation.

Enriched and **open** courses are also offered in certain subjects in grades 11 and 12. Students will make their choices on the basis of their interests, past achievement, and career goals. All destination-related courses have been developed in collaboration with representatives of universities, colleges, apprenticeship programs, or the business community, as appropriate, and are designed to enable students to meet the entrance requirements of post-secondary institutions or apprenticeship or other training programs, or the expectations of employers in the workplace. The following is a brief description of the types of courses that are offered in Grades 11 and 12.

University preparation courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements of university programs.

University/College preparation courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements for specific programs offered at universities and colleges.

College preparation courses are designed to equip students with the knowledge and skills they need to meet the requirements for entrance to most college programs or for admission to apprenticeship or other training programs.

Workplace preparation courses are designed to equip students with the knowledge and skills they need to meet the expectations of employers, if they plan to enter the workplace directly after graduation, or the requirements for admission to certain apprenticeship or other training programs.

Open courses are designed to broaden students' knowledge and skills in subjects that reflect their interests and to prepare them for active and rewarding participation in society. They are not designed with the specific requirements of universities, colleges, or the workplace in mind.

Prerequisites are specified for many courses offered in grades 11 and 12. They are identified in the curriculum policy documents.

Ministry of Education Approved Transfer Courses

A transfer course is a partial credit course that bridges the gap between courses of two different types in the same subject and grade. Students who revise their educational and career goals and who wish to change from one destination-related stream to another in a particular subject may often do so by taking a transfer course. Transfer courses enable students to achieve the expectations not covered in one course type but required for entry into a course in the next grade. For example, the prerequisite for the grade 10 academic preparation course in mathematics is the grade 9 academic course in mathematics. A student who is taking the applied mathematics course in grade 9 but who decides to enter the academic preparation course in grade 10 may do so by taking a transfer course. The transfer course can be taken at summer school.

Note: Although transfer courses may be offered through summer school, the availability of any given course will depend on the number of students who request the program.

Course Codes

The first 3 characters indicate the subject or discipline, the 4th character the grade level, and the 5th character the type of course. The 6th character is for local school use. At Clarington Central Secondary School we use the 6th character to indicate the credit value of the course. For example: ENG3U1 ENG=English, 3=grade 11, U=university preparation, 1=1 credit.

PROCEDURES FOR COURSE CHANGES

Students wishing to make course changes must do so through the Guidance and Career Education Department, by appointment only, and on a first come first serve basis. This must be done within 5 days of the beginning of the semester, providing there is room in the class they wish to change to and they have parental consent (for students under 18 years of age). All students are strongly recommended to take four credits per semester until they have earned a total of 24 credits. **Students can not withdraw (drop) courses later than 5 days following receipt of their midterm report card.**

ALTERNATIVE WAYS OF EARNING CREDITS

The majority of secondary school students will earn their credits toward the Ontario Secondary School Diploma by enrolling in the courses offered in their secondary school. However, a number of students may wish to consider alternative ways of earning the required credits. The options available to such students include:

- continuing education (including the Centre of Individual Studies, summer school, and night school)
- correspondence courses offered by the Independent Learning Centre
- e-Learning
- independent study
- private study

Credit Recovery

Credit recovery is designed to provide students who have fallen significantly behind in credit accumulation with both an opportunity to recover failed credits and to acquire the requisite knowledge, skills and attitudes to be successful in further learning. Students participating in the credit recovery program are able to recover up to two credits, while earning a third credit in Learning Strategies (GLS10). Emphasis in the program is for students to demonstrate achievement of overall course expectations in the subjects they are attempting to recover. The school's Student Success Team deems students eligible for credit recovery. For more information on eligibility, contact the Guidance Department.

eLearning - Get the Courses You Need Online

Having trouble getting a course because it is not offered at your school, it is filled, or it doesn't fit into your timetable? Perhaps eLearning may be the answer....

Are you self-motivated? Do you have good time management skills? Can you work independently? Do you like learning on a computer? If so, consider this...

eLearning allows you to select from over 100 Ontario secondary courses that you complete online in a virtual classroom. Like a regular classroom in your school, you will be enrolled in an Ontario Ministry of Education course being taught by an Ontario qualified teacher. You will have classmates with whom you will interact and assignments and activities with which you will be engaged. The major difference is that your classroom is virtual so you will not be in the physical presence of your teacher or your classmates. The major advantage is that you can access your course at any time from any place you can connect to the Internet. During your eLearning period you are expected to be working on your eLearning course on one of the computers in your school that has been designated for eLearning.

Students are required to meet with their Guidance Counsellor if they are interested in taking eLearning courses. It is recommended that students are eligible for eLearning courses if a chosen course does not fit into their regular school timetable or if it is not offered in their home school. For more information or to register for an eLearning course, please make an appointment with your Guidance Counsellor.

SPECIALIST HIGH SKILLS MAJOR

The Specialist High Skills Major (SHSM) is a ministry-approved 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). The SHSM enables students to customize their secondary school experience to suit their interests and talents while preparing them for a successful post-secondary transition into apprenticeship training, college, university, or direct entry into employment. Clarington Central students will have the opportunity to apply for an SHSM in one of the following sectors: Arts & Culture, Business, Environment, and Hospitality & Tourism. Each SHSM includes a package of related courses, reach ahead opportunities, experiential learning through co-op, sector recognized certifications, and a Sector-Partnered Contextualized Component.

For more information on enrolling for the Specialist High Skills Major please make an appointment with your guidance counsellor.

DUAL CREDITS

Dual Credit Courses are courses for which the student earns both secondary school credit(s) and college credit(s). Select the given course code as part of your course selection to apply for these programs. College Delivered Dual Credits may be subject to a selection process due to limited spots in the program.

Proposed Dual Credit Opportunities for 2019-20 Pending Ministry Approval:

College Delivered at CCSS:

TXC4T1 – Makeup Artistry and Cosmetology

This course covers foundational makeup application techniques, using professional tools, makeup products and applicators. Students will learn skin preparation methods, facial features, highlighting and contouring techniques including false lash application to perform day and evening beauty makeup looks. This course emphasizes the importance of industry standards for proper hygiene and sanitation practices.

GWL with Electrical Installation Methods and Trades Hand Tools

This program will run for 2 periods in Semester 1. Students may earn three Ontario secondary school credits and two college credits. The dual credit courses run one day per week each, with the remaining three days devoted to the secondary school curriculum for GWL3O.

INSL 1401 ELTN S1 Electrical Installation Methods 1

This course is designed to introduce the student to Installation Methods and Standard Trade Practices used in the Electrical Industry for the installation of electrical equipment. All installations must meet the requirements of the rules and regulations found in the Canadian Electrical Code, along with the requirements of the National Building Code.

This course will include studies in the proper use, selection and maintenance of various type of hand tools and equipment. This course will also discuss the Occupational Health and Safety Act as it pertains to construction projects as well as Personal Protective Equipment.

Prerequisite: None

CCHT 1401 Trades Hand Tools

Successful completion of this course will allow the Learner to select, safely use, and care for a wide variety of hand tools and non-powered equipment. Learners will have the opportunity to apply safe work habits and good housekeeping in a workshop setting.

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

PREREQUISITE: MFM2P1

College Delivered at Durham College:

GLN4O4 Centre for Success Top Up Program:

This program is intended for students who are in their 4th or 5th year who are candidates for credit recovery or behind in credits to graduate. One of the goals of this program is to help students transition into college level programs. Students will attend secondary school classes/credit recovery in a Durham classroom with a Clarington Central teacher. They will complete credits in Credit Recovery, 2 senior level Guidance courses, and a senior level Health & Physical Education. Students will also enroll in a college course of their choosing for the dual credit component. Students will benefit from a change in environment, flexibility, and an introduction to the college atmosphere. These students will be granted the privileges and responsibilities of a Durham College student.

NEW STUDENT REGISTRATION INFORMATION

1. Registration Procedures

Students wishing to register at Clarington Central Secondary School are requested to complete a pre-registration package. An interview will be scheduled only when the required documents have been received by the Guidance Department. Required documents include: authorization form, credit summary or transcript, attendance record, most recent report card, current timetable, current marks, grade 10 literacy test results, IEP (Individual Education Plan) if applicable, photocopy of birth certificate and immunization record, copy of custody agreement, or letter of understanding from both custodians if applicable, and proof of residency.

To contact the guidance office, please call 905-697-9857 extension 235.

Students registering after June 30th, should be aware that their course selections may be limited by full classes and scheduling restrictions.

2. Bus Information

School bus information is available by calling the Interactive Voice Response System, at any time of day, to access an automated voice summary of your child's bus stop location and pick-up/drop-off times. To access the IVR system, call 1-866-433-4441. You will need to enter your child's OEN (found on the report card) and their birth date. Should you have difficulty accessing the IVR system, or should you have any questions or concerns about transportation, please call Student Transportation Services at 1-800-757-0307.

3. Student Cards, Picture Packages and Yearbooks

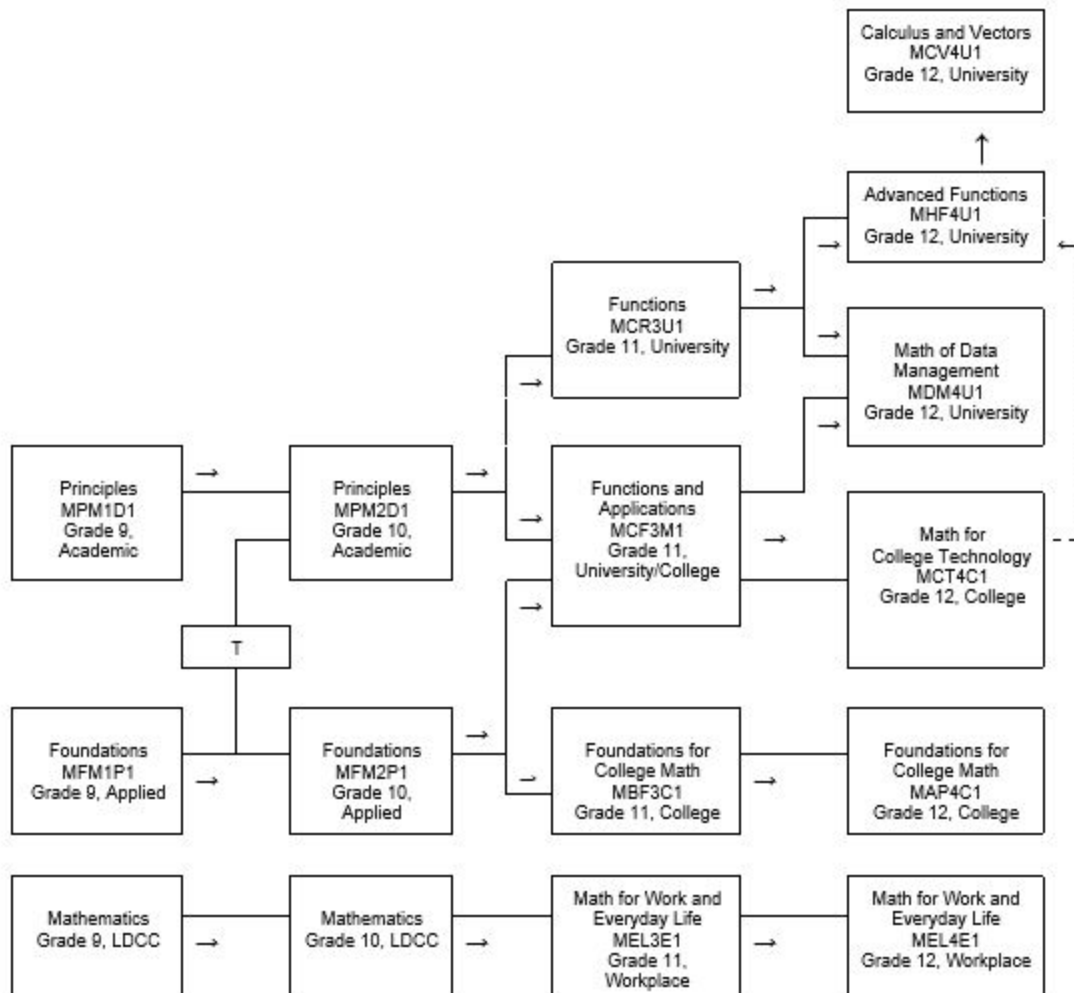
Students may purchase a student photo ID card throughout the year provided they have their picture taken on picture day or on retake day. Picture packages are available for purchase directly from the photographer on picture day in September. Yearbooks must be pre-ordered in semester 1. Please listen to announcements for more information.

4. Athletic Fee

Students participating in varsity sports will be charged a minimum of \$40.00 per team. (Extra fees may be charged for exhibition games and tournaments.)

Prerequisite Chart for Mathematics, Grades 9 - 12

This chart maps out all the courses in the discipline and shows the links between courses and the minimum prerequisites for them. It does not attempt to depict all possible movements from course to course.



T - Transfer Course

LDCC - Locally Developed Compulsory Credit Course

GRADE 9 COURSES

In grade 9 students must take 5 compulsory courses which are: English (ENG1D1 or ENG1P1 or ENG1L1), Mathematics (MPM1D1 or MFM1P1 or MAT1L1), Geography (CGC1D1 or CGC1P1 or CGC1PL), French (FSF1D1 or FSF1P1) and Science (SNC1D1 or SNC1P1 or SNC1L1). Students and parents, in consultation with teachers, must select the appropriate level for the student in each of the compulsory courses listed above. In addition to those compulsory courses students must select 3 elective courses. Elective courses in grade 9 include Art, Business, Drama, Exploring Technologies, Health and Physical Education, and Music.

ARTS

Drama, Music and Visual Arts

Drama

ADA101 Dramatic Arts

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.

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

Music

AMI101 Instrumental Music

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

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

Visual Arts

AVI101 Visual Arts

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

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

BUSINESS

BTT101 Information and Communication Technology in Business

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. Students will be able to transfer the skills and understanding acquired in this course to activities in other courses and outside the classroom.

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

GEOGRAPHY

CGC1D1 Geography of Canada, 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 in which to live.

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

CGC1DA Geography of Canada, Enriched

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

Course Note: Enriched courses are subject to enrolment

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

CGC1P1 Geography of Canada, Applied

This course focuses on current geographic issues that affect Canadians. Students will draw on their personal and everyday experiences as they explore issues relating to food and water supplies, competing land uses, interactions with the natural environment, and other topics relevant to sustainable living in Canada. They will also develop an awareness that issues that affect their lives in Canada are interconnected with issues in other parts of the world. Throughout the course, students will use the concepts of geographic thinking, the geographic inquiry process, and spatial technologies to guide and support their investigations.

CREDIT: 1 **TYPE:** Applied **GRADE:** 9

CGC1PN Geography of Canada, Accommodated

This course focuses on current geographic issues that affect Canadians. Students will draw on their personal and everyday experiences as they explore issues relating to food and water supplies, competing land uses, interactions with the natural environment, and other topics relevant to sustainable living in Canada. They will also develop an awareness that issues that affect their lives in Canada are interconnected with issues in other parts of the world. Throughout the course, students will use the concepts of geographic thinking, the geographic inquiry process, and spatial technologies to guide and support their investigations. This section of Applied Canadian Geography is run with a smaller than typical class size and additional academic supports and accommodations for students with special needs. Recommended for students enrolled in essential level English and Math. Admission with principal's discretion.

CREDIT: 1 **TYPE:** Applied **GRADE:** 9

ENGLISH

ENG1D1 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 from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication. The course is intended to prepare students for the Grade 10 academic English course, which leads to university or college preparation courses in Grades 11 and 12.

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

ENG1DA English - Grade 9 Enriched

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

COURSE NOTE: 80% in grade 8 English and/or the recommendation of the grade 8 teacher is required. Enriched courses are subject to enrolment.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 9

ENG1L1 English - Grade 9 Locally Developed

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

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

ENG1P1 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.

CREDIT: 1 **TYPE:** Applied **GRADE:** 9

HEALTH AND PHYSICAL EDUCATION

PPL1OG Healthy Active Living Education - Grade 9 Female

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.

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

PPL1O1 Healthy Active Living Education - Grade 9 CoEd

This course is inclusive and 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.

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

LANGUAGES – MODERNS

French

FSF1D1 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 lifelong language learners.

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

FSF1P1 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 lifelong language learners.

CREDIT: 1 **TYPE:** Applied **GRADE:** 9

MATHEMATICS

MAT1L1 Mathematics - Grade 9 Locally Developed

This course focuses on the knowledge and skills required to be well prepared for success the Grade 10 Locally-developed Mathematics (MAT2L). It will support students in developing and enhancing strategies that they need to develop mathematical literacy skills and the confidence to use these skills in their day-to-day lives. The areas of Money Sense, Measurement and Proportional Reasoning form the basis of the course content.

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

MFM1P1 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.

COURSE NOTE: Students are required to write the EQAO provincial test towards the end of the semester.

CREDIT: 1 **TYPE:** Applied **GRADE:** 9

MPM1D1 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.

COURSE NOTE: Students are required to write the EQAO provincial test towards the end of the semester.

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

MPM1DA Principles of Mathematics - Grade 9 Enriched

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.

COURSE NOTE: 85% in grade 8 mathematics and/or the recommendation of the grade 8 teacher is required. Enriched courses are subject to enrolment.

Students enrolled in MPM1DA will participate in the Waterloo Math Contest in February. Students are required to write the EQAO provincial test towards the end of the semester.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 9

SCIENCE

SNC1D1 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. Students will gain skills in laboratory techniques such as using a microscope, chemical safety and building electrical circuits. Space exploration will be covered as well.

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

SNC1DA Science - Grade 9 Enriched

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.

COURSE NOTE: 80% in grade 8 science and/or the recommendation of the grade 8 teacher is required. Enriched courses are subject to enrolment.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 9

SNC1L1 Science - Grade 9 Locally Developed

This course prepares students for Grade 10 Locally-developed Science (SNC2L) and/or Grade 11 Workplace Science (SNC3E). This course reinforces and strengthens science-related knowledge and skills, including scientific inquiry, critical thinking and the relationship between science, society and the environment. Students explore a range of topics including Science in Daily Life, Properties of Common Materials, Staying Alive: Life Sustaining Processes, and Electrical Circuits.

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

SNC1P1 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.

CREDIT: 1 **TYPE:** Applied **GRADE:** 9

SPECIAL EDUCATION

Special Education provides academic programs and resource services for pupils identified as exceptional through an Identification, Placement and Review Committee (I.P.R.C.). Special Education also provides assistance to teachers in the design and implementation of educational plans to address the learning needs of students in the areas of physical, behavioural, intellectual, and communications exceptionalities.

Availability of courses/programs will be confirmed at a later date. Further program consultation will be available at your son/daughter's I.P.R.C. meeting. For information regarding Special Education programs, please contact the school.

LEARNING AND LIFE SKILLS PROGRAM

This non-credit program is designed to enrich and develop the skills of students identified through an I.P.R.C. process. The Learning and Life Skills program offers a variety of academic and life skill components. Individualized outcomes establish the basis of programming for the students within the class. The goals of the program are to offer meaningful experiences and facilitate specific skill development, to recognize individual needs and abilities and to provide avenues of opportunity for all to live and work as valued members of our community.

Student Evaluation

Students are evaluated based on the individual expectations outlined in the student's I.E.P.

For further information, please contact Julie Paige or Bruce Rutherford : Lead Teachers- Special Education.

GLE101 Learning Strategies 1: Skills for Success in Secondary School

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

COURSE NOTE: Recommendation of principal required.

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

TECHNOLOGY

Communications Technology

TIJ101 Exploring Technologies

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.

Course Note: Students signing up for Exploring Technologies will experience a rotation through different tech areas at CCISS. Rotations will be based on number of sections, teachers, and room availability.

Examples of what may be offered in a rotation include:

Tech Design

In the Technological design rotation, students will design and fabricate a product/object using the design process, computer software and a variety of available resources. This hands-on project will allow students to get a feel for the work that goes into making objects that are used on a daily basis.

Communication Technology

In the Communication Technology rotation, students will work in groups to write, plan, and create their own unique animation/video that follows a central theme. Students will have the opportunity to explore the "Message/Purpose/Audience" concept and learn the impact that communication technology has on everyone.

Culinary

In the Technological Culinary rotation, students will learn food handling techniques, health and safety standards and food preparation. Students will have an opportunity to make dishes which will benefit them throughout their lives. There will be an emphasis on items made from scratch such as : baked goods, bread, pasta and easy-to-make snacks.

Hairstyling and Aesthetics

In the Hairstyling and Aesthetics rotation, students will learn basic hairstyling techniques such as braiding, curling and straightening. Students will explore different aesthetic techniques such as facials, special effects makeup and nail design.

Computer Technology

In the Computer Technology rotation, students will be introduced to a few topics in computer science, programming, and computer engineering. Students will learn to write simple computer programs and understand how a computer can be interfaced with external devices. At the end of this rotation, students will develop an application (e.g. game) and design a controller for it.

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

GRADE 10 COURSES

In grade 10, students must select 5 compulsory courses which include: English (ENG2L1 or ENG2P1 or ENG2D1), Mathematics (MAT2L1 or MFM2P1 or MPM2D1), History (CHC2L1 or CHC2P1 or CHC2D1), Science (SNC2P1 or SNC2D1) and Civics/Careers (two half credit courses, CHV2O5 and GLC2O5). It is vital that students select the appropriate level based on past achievement and teacher recommendation. Students must also select 3 additional elective credits to complete their timetable.

ARTS

Dance, Drama, Music and Visual Arts

Dance

ATC201 Dance- Grade 10, Open

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

CREDIT: 1 TYPE: Open GRADE: 10

Drama

ADA201 Dramatic Arts

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

CREDIT: 1 TYPE: Open GRADE: 10

Music

AMI201 Instrumental Music

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

CREDIT: 1 TYPE: Open GRADE: 10

AMV201 Music - Vocal/Choral

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

CREDIT: 1 TYPE: Open GRADE: 10

Visual Arts

AVI201 Visual Arts

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

CREDIT: 1 **TYPE:** Open **GRADE:** 10

BUSINESS

BBI201 Introduction to Business

This course introduces students to the world of business. Students will develop an understanding of the functions of business, including accounting, marketing, information and communication technology, human resources, and production, and of the importance of ethics and social responsibility. This course builds a foundation for further studies in business and helps students develop the business knowledge and skills they will need in their everyday lives.

CREDIT: 1 **TYPE:** Open **GRADE:** 10

CANADIAN AND WORLD STUDIES

Civics, History

CHV205 Civics

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

CREDIT: 0.5 **TYPE:** Open **GRADE:** 10

History

CHC2D1 Canadian History in the 20th Century, 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.

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

CHC2DA Canadian History in the 20th Century, Enriched

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.

COURSE NOTE: Enriched courses are subject to enrolment

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

CHC2L1 Canadian History - Locally Developed

This course focuses on the connections between the student and key people, events, and themes in Canadian history from World War I to the present. Students prepare for the Grades 11 and 12 Workplace Preparation history courses through the development and extension of historical literacy and inquiry skills. Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian identity, internal and external relationships, and changes since 1914, are explored through guided investigation. Students have the opportunity to extend analytical skills with a focus on identifying and interpreting events and perspectives and making connections. Students practice reading, writing, visual, and oral literacy skills, and mathematical literacy skills to identify and communicate ideas in a variety of forms.

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

CHC2P1 Canadian History in the 20th Century, 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.

CREDIT: 1 **TYPE:** Applied **GRADE:** 10

ENGLISH

ENG2D1 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.

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

PREREQUISITE: ENG1D1 - English - Grade 9 Academic **or** ENG1DA - English - Grade 9 Enriched

ENG2DA English - Grade 10 Enriched

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.

COURSE NOTE: Recommended: 80% in ENG1D1 Should be an avid reader. Subject to enrolment.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 10

PREREQUISITE: ENG1D1 - English - Grade 9 Academic **or** ENG1DA - English - Grade 9 Enriched

ENG2L1 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 (ENG3E), or in the English Contemporary Aboriginal Voices, Grade 11 Workplace Preparation course (NBE3E). The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students reflect regularly on their growth in these areas.

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

PREREQUISITE: ENG1D1 - English - Grade 9 Academic **or** ENG1P1 - English - Grade 9 Applied **or** ENG1L1 - English - Grade 9 Locally Developed

ENG2P1 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.

CREDIT: 1 **TYPE:** Applied **GRADE:** 10

PREREQUISITE: ENG1D1 - English - Grade 9 Academic **or** ENG1DA - English - Grade 9 Enriched **or** ENG1P1 - English - Grade 9 Applied **or** ENG1L1 - English - Grade 9 Locally Developed

GUIDANCE

GLC205 Career Studies

This course gives students the opportunity to develop the skills, knowledge, and habits that will support them in their education and career/life planning. Students will learn about global work trends, and seek opportunities within the school and community to expand and strengthen their transferable skills and their ability to adapt to the changing world of work. On the basis of exploration, reflective practice, and decision-making processes, students will make connections between their skills, interests, and values and their postsecondary options, whether in apprenticeship training, college, community living, university, or the workplace. They will set goals and create a plan for their first postsecondary year. As part of their preparation for the future, they will learn about personal financial management – including the variety of saving and borrowing tools available to them and how to use them to their advantage – and develop a budget for their first year after secondary school.

CREDIT: 0.5 **TYPE:** Open **GRADE:** 10

HEALTH AND PHYSICAL EDUCATION

PAF201 Personal and Fitness Activities, Gr. 10 Co-ed Wt. Training

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

CREDIT: 1 **TYPE:** Open **GRADE:** 10

PPL201 Healthy Active Living Education Grade 10 Co-ed

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict resolution, and social skills in making personal choices.

CREDIT: 1 **TYPE:** Open **GRADE:** 10

PPL20G Healthy Active Living Education, Gr. 10 Female

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict resolution, and social skills in making personal choices.

CREDIT: 1 **TYPE:** Open **GRADE:** 10

LANGUAGES – MODERNS

FSF2D1 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 lifelong language learners.

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

PREREQUISITE: FSF1D1 - Core French - Grade 9 Academic

MATHEMATICS

MAT2L1 Mathematics - Grade 10 Locally Developed

This Grade 10 course is designed to allow students to solidify and extend their understanding of, and confidence in using, the concepts developed in MAT1L so that they are well prepared for success in the Mathematics Grade 11 Workplace Preparation course (MEL3E). In the Grade 10 course, students are asked to demonstrate a greater depth of understanding and level of complexity, in contexts that move them from their immediate personal environment to the larger community. **Offered in 2018-2019 and every 2nd year.**

COURSE NOTE: Students may enrol in MAT2L without having earned the MAT1L credit.

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

MFM2P1 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.

CREDIT: 1 **TYPE:** Applied **GRADE:** 10

PREREQUISITE: MFM1P1 - Foundations of Mathematics - Grade 9 Applied **or** MPM1D1 - Principles of Mathematics - Grade 9 Academic **or** MPM1DA - Principles of Mathematics - Grade 9 Enriched

MPM2D1 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.

COURSE NOTE: Students who earn **less than 60%** in MPM1D1 or MPM1DA are **not encouraged** to enrol in MPM2D1

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

PREREQUISITE: MPM1D1 - Principles of Mathematics - Grade 9 Academic **or** MPM1DA - Principles of Mathematics - Grade 9 Enriched

MPM2DA Principles of Mathematics - Grade 10 Enriched

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.

COURSE NOTE: Prerequisite required and 80% in MPM1DA AND the approval of the mathematics department, which includes participation in the Waterloo mathematics contests. Enriched courses are subject to enrolment.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 10

PREREQUISITE: MPM1D1 - Principles of Mathematics - Grade 9 Academic **or** MPM1DA - Principles of Mathematics - Grade 9 Enriched

SCIENCE

SNC2D1 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.

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

PREREQUISITE: SNC1D1 - Science - Grade 9 Academic **or** SNC1DA - Science - Grade 9 Enriched

SNC2DA Science - Grade 10 Enriched

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.

COURSE NOTE: Recommended: 80% in SNC1D1/A. Enriched courses are subject to enrolment.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 10

PREREQUISITE: SNC1D1 - Science - Grade 9 Academic **or** SNC1DA - Science - Grade 9 Enriched

SNC2L1 Science - Essentials

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking, and the environmental impact of science and technology, to prepare students for success in everyday life, in the workplace and in the Science Grade 11 Workplace Preparation course. Students explore a range of topics including science in the media, interactions of common materials, interdependence of organisms in communities, and using electrical energy. Students have the opportunity to extend mathematical and scientific process skills and to continue developing their skills in reading, writing, and oral language through relevant and practical science activities. Recommended Preparation: A Grade 9 Science credit

CREDIT: 1 TYPE: Locally Developed GRADE: 10

SNC2P1 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.

CREDIT: 1 TYPE: Applied GRADE: 10

PREREQUISITE: SNC1D1 - Science - Grade 9 Academic or SNC1DA - Science - Grade 9 Enriched or SNC1P1 - Science - Grade 9 Applied

TECHNOLOGY

Communications Technology

TGJ2O1 Communications Technology/Multi-Media

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

CREDIT: 1 TYPE: Open GRADE: 10

Green Industries

THJ2O1 Green Industries

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

CREDIT: 1 TYPE: Open GRADE: 10

Hair & Aesthetics

TXJ201 Hairstyling and Aesthetics

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.

CREDIT: 1 **TYPE:** Open **GRADE:** 10

Hospitality (Cooking)

TFJ201 Hospitality and Tourism/Cooking

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

CREDIT: 1 **TYPE:** Open **GRADE:** 10

Technological Design

TDJ201 Technological Design

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

COURSE NOTE: This course has an Industrial Design focus with projects related to product concepts, product design, development and fabrication. Students will have the opportunity to complete 3D Modeling, 3D Printing and model making assignments to explore various ways technology is being used in design and product development.

CREDIT: 1 **TYPE:** Open **GRADE:** 10

GRADE 11 COURSES

In grade 11, students must take two compulsory courses which include: English (ENG3E1 or ENG3C1 or ENG3U1) and Mathematics (MEL3E1 or MBF3C1 or MCF3M1 or MCR3U1). It is vital that students select the appropriate level based on past achievement and teacher recommendation. Students must also select 6 additional courses to complete their timetable. Students are not permitted to place a spare on their course selection sheet. Students must select eight courses.

ARTS

Dance, Drama, Music and Visual Arts

Dance

ATC3M1 Dance

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

CREDIT: 1 **TYPE:** University/College **GRADE:** 11

PREREQUISITE: ATC201 or one year of studio dance experience required.

Drama

ADA3M1 Dramatic Arts

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

CREDIT: 1 **TYPE:** University/College **GRADE:** 11

PREREQUISITE: ADA201 - Dramatic Arts or permission from the instructor.

ADV3M1 Drama- Film/Video

In this course, students will spend the whole semester working on a variety of video productions, both behind and in front of the camera. Students will develop knowledge and skills as they design and produce media projects in the areas of live and recorded projects. Partway through the semester, students will choose an area of concentration in behind-the-scenes camera work, or on-camera acting skills. Projects may include T.V., video, and movie production; radio and audio production; broadcast journalism; and interactive new media. Students will also learn about careers in the film and television industry.

CREDIT: 1 **TYPE:** University/College **GRADE:** 11

Music

AMU3M1 Instrumental Music

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

CREDIT: 1 **TYPE:** University/College **GRADE:** 11

PREREQUISITE: AMI101 - Instrumental Music (with permission from the instructor) **or** AMI201 - Instrumental Music

AMV301 Music, Vocal/Choral

This course develops students' artistic knowledge and skills through the performance of music and the preparation of music production. Students will perform appropriate works, particularly works in contemporary popular styles. Independently and in groups, they will also plan, market, and produce music productions, making use of appropriate technology, and will evaluate the results. This course is designed for students who want to learn how to sing and/or want to develop their voice in preparation for musical theatre offered in the next school year.

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

Visual Arts

AVI3M1 Visual Arts

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

CREDIT: 1 **TYPE:** University/College **GRADE:** 11

PREREQUISITE: AVI101 - Visual Arts **or** AVI201 - Visual Arts

AWP301 Sculpture

The sculpture course focuses on the refinement of skills and knowledge in visual arts. Students will design sculptures, create maquettes and construct sculptures using a variety of material and techniques including casting, carving and kinetic sculpture. Students will analyze art forms; use theories of art in analyzing and producing art; and increase their understanding of stylistic changes in Western art, and art from other cultures. Students will produce a body of work demonstrating a personal approach.

Recommended previous course: AVI101, Visual Arts, Grade 9, or AVI201, Grade 10,

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

BUSINESS

BAF3M1 Introduction to Financial Accounting

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

CREDIT: 1 **TYPE:** University/College **GRADE:** 11

BDP3O1 Entrepreneurship: The Enterprising Person

This course examines the importance of enterprising employees in today's changing business environment. Students will learn about the skills and attributes of enterprising employees, the distinguishing features of their work environments, and the challenges and rewards of becoming an enterprising person. Students will also have an opportunity to demonstrate and develop enterprising skills by planning and organizing a school or community event. For students enrolling in BDP3O1, a credit in BBI2O1, Introduction to Business, can provide a foundation for this course.

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

BMI3C1 Marketing: Goods, Services, Events

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. For students enrolling in BMI3C1, BBI2O1, Introduction to Business, can provide a foundation for this course. Pending Ministry approval, a team-taught dual credit will be offered in this course with Durham or Fleming College. Students will earn both a secondary school credit and a college credit when they are successful in this program.

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

CANADIAN AND WORLD STUDIES

Geography

CGG3O1 Regional Geography: Travel and Tourism

This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends as well as tensions related to tourism, and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities.

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

PREREQUISITE: CGC1D1 - Geography of Canada, Academic **or** CGC1P1 - Geography of Canada, Applied

History

CHW3M1 World History to the Sixteenth Century

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

CREDIT: 1 **TYPE:** University/College **GRADE:** 11

PREREQUISITE: CHC2P1 - Canadian History in the 20th Century, Applied **or** CHC2D1 - Canadian History in the 20th Century, Academic

Law

CLU3M1 Understanding Canadian Law

This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of laws relating to rights and freedoms in Canada; our legal system; and family, contract, employment, tort, and criminal law. Students will develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating a range of legal issues and formulating and communicating informed opinions about them.

CREDIT: 1 **TYPE:** University/College **GRADE:** 11

PREREQUISITE: CHC2D1 - Canadian History in the 20th Century, Academic **or** CHC2P1 - Canadian History in the 20th Century, Applied

COMPUTER STUDIES

ICS3C1 Introduction to Computer Programming

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

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

ICS3U1 Introduction to Computer Science

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

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

ENGLISH

NBE3C1 English, Grade 11 College Preparation, Understanding Contemporary First Nations, Métis and Inuit Voices

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

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

PREREQUISITE: ENG2P1 - English - Grade 10 Applied **or** ENG2D1 - English - Grade 10 Academic

ENG3E1 English, Grade 11 Workplace Preparation, Understanding Contemporary First Nations, Métis, and Inuit Voices

This course explores themes, forms, and stylistic elements of literary, informational, graphic, oral, cultural, and media texts emerging from First Nations, Métis, and Inuit cultures in Canada, as well as some texts that relate to those cultures. In order to better understand contemporary texts, students will explore connections between traditional and contemporary text forms and cultural and community aspects of identity, relationships, and self-determination, sovereignty, or self-governance. Students will also create oral, written, and media texts focusing on the development of literacy, communication, and critical thinking skills necessary for success in the workplace and daily life. The course is intended to prepare students for the compulsory Grade 12 English workplace preparation course.

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

PREREQUISITE: ENG2P1 - English - Grade 10 Applied **or** ENG2L1 - English - Grade 10 Locally Developed

ENG3U1 English, Grade 11 University Preparation, Understanding Contemporary First Nations, Métis, and Inuit Voices

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

COURSE NOTE: It is recommended that students have a 70% or higher in ENG2D1 to take this course.

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

PREREQUISITE: ENG2D1 - English - Grade 10 Academic **or** ENG2DA - English - Grade 10 Enriched

ENG3UA English, Grade 11 Enriched, Understanding Contemporary First Nations, Métis, and Inuit Voices

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

COURSE NOTE: Recommended: 80% in ENG2D1/A. Students should be daily readers and enjoy analyzing literature. Enriched courses are subject to enrolment.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 11

PREREQUISITE: ENG2D1 - English - Grade 10 Academic **or** ENG2DA - English - Grade 10 Enriched

GUIDANCE AND CAREER STUDIES

CO-OPERATIVE EDUCATION

‘There are choices when preparing for life after high school.’

School to Work or

School to College/University/Apprenticeship

Explore Possibilities and Gain Valuable Experience

The **CO-OPERATIVE EDUCATION** program is a joint effort between the school and community, which provides learning experiences outside the classroom. Students work, under the supervision of employers and teachers, in ‘real work’ job sites. Specific subjects, related to the workplace, must be taken concurrently or completed prior to the co-op placement.

The program provides an excellent opportunity to gain work and employability skills for students interested in entering the workplace directly from high school, or for students needing experience to enter some college programs. Participation in co-operative education generates credits toward specific graduation requirements.

Co-operative education provides the opportunity to enrol in **one, two, three, or four credit packages**. Students are able to work during their co-op time, particularly in their senior year, for a full or a half day to gain work experience.

Co-operative education may be the culmination of a series of experiential learning opportunities that include job shadowing, job twinning, and work experience, and is often an integral part of school-work transition programs, including the Ontario Youth Apprenticeship Program (OYAP).

A co-operative education course must be based on a related course (or courses). Together these constitute a student's co-operative education program, designed to suit the student's strengths, interests, and needs, and to enhance the student's preparation for the future.

Co-operative education courses include a classroom component, comprising pre-placement and integration activities, and a placement component. Students earn credits through co-operative education by integrating classroom theory with planned learning experiences in the community to achieve learning based on the curriculum expectations of the related course.

Students apply to take a co-operative education course during the course selection process. A counselling and interviewing process – conducted by cooperative education teachers in collaboration with guidance counsellors, teacher-advisors, and administrators – determines the student's suitability for the program/work environment.

Prior to their placements, students attend structured orientation sessions as part of the classroom component of the program.

In collaboration with students, subject teachers, and placement supervisors, co-operative education teachers prepare the Student's Cooperative Education Learning Plan that include a description of the curricular knowledge and skills and the employability skills that students will demonstrate at their placements. Co-operative education teachers also conduct placement learning assessments and evaluate their students' performance in pre-placement, placement and reflective learning activities. Students share and analyse their placement experiences with their teachers and peers in structured integration sessions. Students create and reflect on their learning goals, plan how they will achieve the goals and devise success criteria to help them monitor their progress.

The following are SPECIALIZED PROGRAMS offered as part of Co-operative Education that may provide particular benefits to students:

For more information visit the Co-op office in Room 159.

Note: Co-op students have usually completed two years of secondary school and a minimum of sixteen credits before entering the program. An additional application form must be submitted for this program along with the course selection sheet.

GOLD COLLAR WORKERS - Multi-Trade Construction 4 credits

This is a full semester program, taken through Bowmanville High School. Students will earn *2 construction credits and 2 cooperative education credits* and can be taken in either the 1st or 2nd semester of the school year. Students in grades 11 and 12, 16 years or older, interested in this program, should visit the Co-op Department for more information.

At an actual construction site at the Port of Newcastle, students receive classroom instruction as well as develop construction skills and knowledge while working with a wide variety of trades people. These credits are offered in grades 11 and 12. Students can participate in the program twice.

Note: Transportation for Gold Collar students is provided from B.H.S. to and from the worksite.

APPRENTICESHIPS

Ontario Youth Apprenticeship Program (OYAP)

The Ontario Youth Apprenticeship Program allows Ontario secondary school students to fast track into a skilled trade of their choice. There are two types of OYAP programs available to students:

The first option is a unique combination of **community college trades training** and a high school **Cooperative Education Program**. Students are registered as apprentices and attend college one to three days a week to earn their Basic Level 1 of the trade qualifications. Students spend the remainder of the week at work placements earning two to three high school credits while accumulating hours toward their apprenticeship requirements. This full-day program usually takes place during the second semester.

- Positions in this program are only available to students in Grade 12 who are eligible to graduate.
- Students who return for a fifth year will only be allowed to participate with special permission.
- Student involvement hours must be completed and documented at the time of indenturing.
- Candidates demonstrating success in the recommended Math, Science, English and Technological Studies will be interviewed by a panel from both education and industry to gain entrance into the program
- Successful candidates will require registration in a two or three credit Cooperative Education Program and two Dual Credits during second semester. *A related Cooperative Education placement during Grade 11 is highly recommended.*
- A transportation allowance is available to subsidize the cost of attending the College Program.
- The cost of College training is absorbed by the Ministry of Training Colleges and Universities.

Note: OYAP Level 1 program students will receive Dual Credits along with their Cooperative Education credits. For further information about Dual Credits, speak to a Guidance Counsellor at your school.

Tentative Accelerated Programs for February 2020

Program Training Delivery Agent	Auto Service Tech.	Welding	Hairstylist	Plumbing	General Carpenter	Industrial Mechanic Millwright	Cook	Electrical
Fleming College					X			
Durham College	X	X		X		X	X	X
Durham D.S.B.			X					

A second form of OYAP participation is available to any **Cooperative Education** student, with a **placement** in an Apprenticesable Trade, who is at least 16 years of age and has 16 credits. These OYAP students do not complete their trade’s Basic Level 1 course at a Community College. Instead, Student Learning Plans are developed based on training standards for their trade.

- Students can be registered as apprentices and apply any competencies achieved through their Cooperative Education placement toward their apprenticeship.
- An OYAP student in this program can participate in any of more than 150 recognized trades and earn potentially between two and four secondary credits.

For more information, contact your Guidance or Cooperative Education Teacher, or visit www.kprschoools.ca.

COP3X1 Coop Peer Tutoring 1 Period

Cooperative education programs, provide opportunities for learning in apprenticeship and workplace settings in combination with classroom studies, are designed to suit students’ particular strengths, interests, and needs and further enhance their preparation for the future. The peer tutoring option allows students to work with a teacher mentor to tutor students in a subject area of their choosing. This option is particularly of interest to students who wish to explore teaching, social work and related fields.

COURSE NOTE: Admittance to the course is subject to approval by the Principal and the Co-op department. Exceptional attendance and strength in the subject area will be considerations. You must complete and submit the Coop Application Form available in the Coop and Guidance offices, and submit it to the Coop Office, rm 159.

CREDIT: 1 TYPE: Open GRADE: 11/12

PREREQUISITE: GLC205 - Career Studies

COP3X2 Coop 2 Period Placement

Cooperative education programs, provide opportunities for learning in apprenticeship and workplace settings in combination with classroom studies, are designed to suit students’ particular strengths, interests, and needs and further enhance their preparation for the future. A 2 period coop is a half day -- either periods 1 and 2 or periods 3 and 4. The student will work with a coop teacher to obtain a suitable placement.

COURSE NOTE: You must complete and submit the Coop Application Form available in the Coop and guidance offices, and submit it to the Coop Office, rm 159.

CREDIT: 2 TYPE: Open GRADE: 11/12

PREREQUISITE: GLC205 - Career Studies

COP3X4 Coop 4 Period Placement

Cooperative education programs, provide opportunities for learning in apprenticeship and workplace settings in combination with classroom studies, are designed to suit students' particular strengths, interests, and needs and further enhance their preparation for the future. The four period coop is completed in a setting selected by the student in consultation with the coop teacher and can be in an apprenticeship, professional, non-profit, or other workplace.

COURSE NOTE: You must complete and submit the Coop Application Form available in the coop and guidance offices, and submit it to the Coop Office, Room 159.

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

PREREQUISITE: GLC205 - Career Studies

COP4XD Coop Gold Collar Program 4 Period

Cooperative education programs, provide opportunities for learning in apprenticeship and workplace settings in combination with classroom studies, are designed to suit students' particular strengths, interests, and needs and further enhance their preparation for the future. This 4 period program is offered in conjunction with Bowmanville High School. Students experience a wide variety of skilled trades on a construction site at the Port of Newcastle. Transportation is provided.

COURSE NOTE: You must complete and submit the Coop Application Form available in the coop and guidance offices, and submit it to the Coop Office, Room 159.

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

PREREQUISITE: GLC205 - Career Studies

COP4XY Coop OYAP 4 Period

Cooperative education programs provide opportunities for learning in apprenticeship and workplace settings in combination with classroom studies, are designed to suit students' particular strengths, interests, and needs and further enhance their preparation for the future. The OYAP or Ontario Youth Apprenticeship Program option allows students to complete a 4 credit coop in a skilled trade while receiving the first semester of college apprenticeship training. For this reason this coop should be undertaken in semester 2 of the student's final year at school.

COURSE NOTE: You must complete and submit the Coop Application Form available in the coop and guidance offices, and submit it to the Coop Office, rm 117.

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

PREREQUISITE: GLC205 - Career Studies

Guidance Courses

GWL302 - Advanced Learning Strategies – Electrical/Hand Tools Dual Credit

This course improves students' learning and personal-management skills, preparing them to make successful transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal-management techniques to maximize their learning. Students will investigate trends and resources to support their postsecondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals. Pending Ministry approval, a college delivered dual credit will be offered in this course with Durham or Fleming College. Students will earn both a secondary school credit and a college credit when they are successful in this program.

COURSE NOTE: This is the Electrical/Hand Tools Dual Credit. Students may earn 3 credits, including up to 2 dual credits. Students interested in this program are asked to schedule an appointment with Guidance.

CREDIT: 3 **TYPE:** Open **GRADE:** 12

Prerequisite: MFM2P

HEALTH AND PHYSICAL EDUCATION

PAF301 Personal and Fitness Activities, Gr. 11 Co-ed Weight Training

This course helps students develop a personalized approach to healthy living. Students will participate in a variety of fitness and weight training activities that have the potential to engage lifelong participation. Students will create individualized weight training programs that will require goal setting, self-evaluation, and reflection. Students will also learn about healthy eating and positive self-image. Throughout this course, students will develop the skills necessary to take charge of and improve their own health, as well as to encourage others to lead healthy lives.

CREDIT: 1 TYPE: Open GRADE: 11

PPL301 Healthy Active Living Education Grade 11 Co-ed

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students' interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills and will be given opportunities to practise goal-setting, decision-making, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety.

CREDIT: 1 TYPE: Open GRADE: 11

PPL30G Healthy Active Living, Gr. 11 Females

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

CREDIT: 1 TYPE: Open GRADE: 11

HUMANITIES AND SOCIAL STUDIES

HPC301 Raising Healthy Children (Parenting)

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. The course is great for anyone interested in professions involving young children (nurse, early childhood educator, teacher, etc.) and is highly recommended for everyone who believes they will one day be parents. Class activities include flour and electronic baby simulation, lots of class discussions, baby and toddler visits, critique of popular media portrayals (movies and television shows).

CREDIT: 1 TYPE: Open GRADE: 11

HSP3C1 Introduction to Anthropology, Psychology, & Sociology

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. This course is great for students interested in pursuing sociology, psychology, anthropology, social work, nursing, medicine, teaching or politics at the college level.

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

HSP3U1 Introduction to Anthropology, Psychology & Sociology

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 research, and to become familiar with current thinking on a range of issues within the three disciplines. This course is great for students interested in pursuing sociology, psychology, anthropology, social work, nursing, medicine, teaching or politics at the university level.

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

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

LANGUAGES – MODERNS

FSF3U1 Core French Grade 11

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.

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

PREREQUISITE: FSF2D1 - Core French - Grade 10 Academic

MATHEMATICS

MBF3C1 Mathematics of Personal Finance - Grade 11 College Preparation

This course enables students to broaden their understanding of mathematics as a problem solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

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

PREREQUISITE: MFM2P1 - Foundations of Mathematics - Grade 10 Applied **or** MPM2D1 - Principles of Mathematics - Grade 10 Academic

MCF3M1 Functions - Grade 11 College/University

This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modelling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course is a pre-requisite for MCT4C1 and MDM4U1. Historically, however, many students with this credit are not successful in MDM4U1. Please consult with the Mathematics Department.

COURSE NOTE: Students coming from MFM2P should have **earned at least 85%** and have the approval of the Math Department.

Students coming from MPM2D with an average **less than 60% are not recommended** to enrol in this course.

Students planning to pursue math intensive programs e.g. nursing, business, technology, engineering, etc. in college are encouraged to take MCF3M1 and MCT4C1.

CREDIT: 1 **TYPE:** University/College **GRADE:** 11

PREREQUISITE: MPM2D1 - Principles of Mathematics - Grade 10 Academic **or** MFM2P1 - Foundations of Mathematics - Grade 10 Applied **or** MPM2DA - Principles of Mathematics - Grade 10 Enriched

MCR3U1 Functions - Grade 11 University Preparation

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems. Note: This course is the prerequisite for MHF4U1 and MCV4U1.

COURSE NOTE: Students who earned **less than 75% in MPM2D1** should consider MCF3M1.

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

PREREQUISITE: MPM2D1 - Principles of Mathematics - Grade 10 Academic **or** MPM2DA - Principles of Mathematics - Grade 10 Enriched

MCR3UA Functions - Grade 11 Enriched

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

COURSE NOTE: Prerequisite required and the approval of the Mathematics Department, which includes participation in the Waterloo Mathematics Contests. Enriched courses are subject to enrolment.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 11

PREREQUISITE: MPM2DA - Principles of Mathematics - Grade 10 Enriched **or** MPM2D1 - Principles of Mathematics - Grade 10 Academic

MEL3E1 Mathematics for Everyday Life Grade 11

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.

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

PREREQUISITE: Any Grade 9 or 10 math course

SCIENCE

SBI3C1 Biology - 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.

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

PREREQUISITE: SNC2D1 - Science - Grade 10 Academic **or** SNC2P1 - Science - Grade 10 Applied

SBI3U1 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.

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

PREREQUISITE: SNC2D1 - Science - Grade 10 Academic **or** SNC2DA - Science - Grade 10 Enriched **or** SBI3C1 - Biology - College Preparation

SBI3UA Biology - Grade 11 Enriched

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.

COURSE NOTE: Enriched courses are subject to enrolment.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 11

PREREQUISITE: SNC2D1 - Science - Grade 10 Academic **or** SNC2DA - Science - Grade 10 Enriched

SCH3U1 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.

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

PREREQUISITE: SNC2D1 - Science - Grade 10 Academic **or** SNC2DA - Science - Grade 10 Enriched **or** SCH4C1 - Chemistry - College Preparation

SCH3UA Chemistry - Grade 11 Enriched

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.

COURSE NOTE: Enriched courses are subject to enrolment.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 11

PREREQUISITE: SNC2D1 - Science - Grade 10 Academic **or** SNC2DA - Science - Grade 10 Enriched

SPH3U1 Physics - Grade 11 University Preparation

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

COURSE NOTE: Recommended previous course: Math, Grade 10, Academic.

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

PREREQUISITE: SNC2D1 - Science - Grade 10 Academic **or** SNC2DA - Science - Grade 10 Enriched **or** SPH4C1 - Physics - College Preparation

SPH3UA Physics - Grade 11 Enriched

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

COURSE NOTE: Recommended previous course: Math, Grade 10, Academic. Enriched courses are subject to enrolment.

CREDIT: 1 **TYPE:** Enriched Courses **GRADE:** 11

PREREQUISITE: SNC2D1 - Science - Grade 10 Academic **or** SNC2DA - Science - Grade 10 Enriched

SVN3E1 Environmental Science - Workplace Preparation

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

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

PREREQUISITE: SNC1D1 - Science - Grade 9 Academic **or** SNC1P1 - Science - Grade 9 Applied **or** SNC1L1 - Science - Grade 9 Locally Developed

SVN3M1 Environmental Science - College/University Preparation

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

CREDIT: 1 **TYPE:** University/College **GRADE:** 11

PREREQUISITE: SNC2D1 - Science - Grade 10 Academic **or** SNC2P1 - Science - Grade 10 Applied **or** SNC2DA - Science - Grade 10 Enriched

TECHNOLOGY

Communications Technology

TGJ301 Communications Technology: Print and Graphic Communications

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 while exploring secondary and postsecondary education pathways and careers opportunities in various communications technological fields.

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

Hair & Aesthetics

TXJ3E1 Hairstyling and Aesthetics

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.

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

Hospitality (Cooking)

TFJ3C1 Hospitality and Tourism, Cooking

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.

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

TFJ3E1 Hospitality and Tourism, Cooking

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.

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

Technological Design

TDJ301 Technological Design

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 learn about secondary and post-secondary pathways leading to careers in the field.

COURSE NOTE: This course explores many different areas of design including graphics, product design, technical drawing, architectural design and 3D modelling. Using the Design Process, students function as the “designer” to create original designs.

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

GRADE 12 COURSES

Students in grade 12 are required to take one compulsory English class (ENG4E1 or ENG4C1 or ENG4U1). Students are required to select at least 7 courses. Students are encouraged to pay particular attention to University, College and Apprenticeship prerequisites.

ARTS

Dance, Drama, Music and Visual Arts

Dance

ATC4M1 Dance

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

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

PREREQUISITE: ATC3M1 or 3 years of studio dance experience

Drama

ADA4M1 Dramatic Arts

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

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

PREREQUISITE: ADA3M1 - Drama or permission of the instructor.

Music

AMU4M1 Instrumental Music

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

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

PREREQUISITE: AMT3M1 - Music Theatre - Pit Band **or** AMU3M1 – Music

AMV4M1 Music/Vocal Choral

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

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

PREREQUISITE: AMU3M1 - Music **or** AMV3O1 - Music, Vocal/Choral **or** AMT3M1 - Music Theatre - Pit Band **or** AMT4M1 - Music Theatre - Pit Band **or** ADB3M1 - Dramatic Arts/Music Theatre Production **or** ADB4M1 - Dramatic Arts/Music Theatre Production

Visual Arts

AVI4M1 Visual Arts

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

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

PREREQUISITE: AVI3M1 - Visual Arts

AWQ4M1 Photography

This course enables students to further develop their knowledge and skills in visual arts through photography. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, the creation of collage, multimedia works, and works using emerging technologies. Students will use the critical analysis process when evaluating their own work and the work of others.

Course Note: As this is a photography course, ownership of some form of digital camera is strongly recommended.

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

BUSINESS

BAT4M1 Principles of Financial Accounting

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

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

PREREQUISITE: BAF3M1 - Introduction to Financial Accounting

BOH4M1 Business Leadership: Management Fundamentals

This course focuses on the development of leadership skills used in managing a successful business. Students will analyse the role of a leader in business, with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility are also emphasized. Pending Ministry approval, a team-taught dual credit will be offered in this course with Durham or Fleming College. Students will earn both a secondary school credit and a college credit when they are successful in this program.

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

PREREQUISITE: Any university, university/college, or college preparation course in Business Studies or Canadian and World Studies

CANADIAN AND WORLD STUDIES

History

CHY4C1 World History since the Fifteenth Century

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

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

CHY4U1 World History since the Fifteenth Century

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

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

PREREQUISITE: Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.

Law

CLN4U1 Canadian and International Law

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.

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

PREREQUISITE: Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.

ENGLISH

ENG4C1 English - Grade 12 College Preparation

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

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

PREREQUISITE: ENG3C1 - English - Grade 11 College Preparation **or** ENG3U1 - English - Grade 11 University Preparation

ENG4E1 English - Grade 12 Workplace Preparation

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

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

PREREQUISITE: ENG3E1 - English - Grade 11 Workplace Preparation

ENG4U1 English - Grade 12 University Preparation

This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will 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.

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

PREREQUISITE: ENG3U1 - English - Grade 11 University Preparation **or** ENG3UA - English - Grade 11 Enriched

ENG4UA English - Grade 12 Enriched

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

COURSE NOTE: Recommended: 80% in ENG3U1/A Enriched courses are subject to enrolment.

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

PREREQUISITE: ENG3U1 - English - Grade 11 University Preparation **or** ENG3UA - English - Grade 11 Enriched

EWC4C1 The Writer's Craft- College

This course emphasizes knowledge and skills related to the craft of writing. Students will investigate models of effective writing; use a workshop approach to write a variety of works; and make considered decisions for improving the quality of their writing. They will also complete a creative or analytical independent study project, and investigate opportunities for publication and for writing careers.

COURSE NOTE: Prerequisite ENG3E1 requires department approval.

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

PREREQUISITE: ENG3C1 - English - Grade 11 College Preparation

EWC4U1 The Writer's Craft- 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.

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

PREREQUISITE: ENG3U1 - English - Grade 11 University Preparation or ENG3UA - English - Grade 11 Enriched

OLC40L Ontario Literacy Course

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.

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

Guidance Courses

GLN404 Designing Your Future – Centre For Success

This course prepares students to make successful transitions to postsecondary destinations as they investigate specific postsecondary options based on their skills, interests, and personal characteristics. Students will explore the realities and opportunities of the workplace and examine factors that affect success, while refining their job-search and employability skills. Students will develop their portfolios with a focus on their targeted destination and develop an action plan for future success.

COURSE NOTE: This is the Durham Centre for Success Program which is administered by the Centre for Individual Studies(CIS) . Students may earn more than four credits, including up to 2 dual credits.

Students interested in this program are asked to schedule an appointment with Guidance.

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

CO-OPERATIVE EDUCATION

'There are choices when preparing for life after high school.'

School to Work or School to College/University/Apprenticeship Explore Possibilities and Gain Valuable Experience

Please see the grade 11 section for Co-operative Education. There is a thorough explanation of all co-operative education courses offered for both grade 11 and 12.

COP4XP Coop Peer Tutoring 1 Period

Cooperative education programs, provide opportunities for learning in apprenticeship and workplace settings in combination with classroom studies, are designed to suit students' particular strengths, interests, and needs and further enhance their preparation for the future. The peer tutoring option allows students to work with a teacher mentor to tutor students in a subject area of their choosing. This option is particularly of interest to students who wish to explore teaching, social work and related fields.

COURSE NOTE: Admittance to the course is subject to approval by the Principal and the Co-op department. Exceptional attendance and strength in the subject area will be considerations. You must complete and submit the Coop Application Form available in the Coop and Guidance offices, and submit it to the Coop Office, rm 159.

CREDIT: 1 TYPE: Open GRADE: 11/12

PREREQUISITE: GLC205 - Career Studies

COP4X2 Coop 2 Period Placement

Cooperative education programs, provide opportunities for learning in apprenticeship and workplace settings in combination with classroom studies, are designed to suit students' particular strengths, interests, and needs and further enhance their preparation for the future. A 2 period coop is a half day -- either periods 1 and 2 or periods 3 and 4. The student will work with a coop teacher to obtain a suitable placement.

COURSE NOTE: You must complete and submit the Coop Application Form available in the Coop and guidance offices, and submit it to the Coop Office, rm 159.

CREDIT: 2 TYPE: Open GRADE: 11/12

PREREQUISITE: GLC205 - Career Studies

COP4X4 Coop 4 Period Placement

Cooperative education programs, provide opportunities for learning in apprenticeship and workplace settings in combination with classroom studies, are designed to suit students' particular strengths, interests, and needs and further enhance their preparation for the future. The four period coop is completed in a setting selected by the student in consultation with the coop teacher and can be in an apprenticeship, professional, non-profit, or other workplace.

COURSE NOTE: You must complete and submit the Coop Application Form available in the coop and guidance offices, and submit it to the Coop Office, Room 159.

CREDIT: 4 TYPE: Open GRADE: 11

PREREQUISITE: GLC205 - Career Studies

COP4XD Coop Gold Collar Program 4 Period

Cooperative education programs, provide opportunities for learning in apprenticeship and workplace settings in combination with classroom studies, are designed to suit students' particular strengths, interests, and needs and further enhance their preparation for the future. This 4 period program is offered in conjunction with Bowmanville High School. Students experience a wide variety of skilled trades on a construction site at the Port of Newcastle. Transportation is provided.

COURSE NOTE: You must complete and submit the Coop Application Form available in the coop and guidance offices, and submit it to the Coop Office, Room 159.

CREDIT: 4 TYPE: Open GRADE: 11

PREREQUISITE: GLC205 - Career Studies

COP4XY Coop OYAP 4 Period

Cooperative education programs provide opportunities for learning in apprenticeship and workplace settings in combination with classroom studies, are designed to suit students' particular strengths, interests, and needs and further enhance their preparation for the future. The OYAP or Ontario Youth Apprenticeship Program option allows students to complete a 4 credit coop in a skilled trade while receiving the first semester of college apprenticeship training. For this reason this coop should be undertaken in semester 2 of the student's final year at school.

COURSE NOTE: You must complete and submit the Coop Application Form available in the coop and guidance offices, and submit it to the Coop Office, rm 159.

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

PREREQUISITE: GLC205 - Career Studies

GOLD COLLAR WORKERS - Multi-Trade Construction 4 credits

This is a full semester program, taken through Bowmanville High School. Students will earn 2 *construction credits and 2 cooperative education credits* and can be taken in either the 1st or 2nd semester of the school year. Students in grades 11 and 12, 16 years or older, interested in this program, should visit the Co-op Department for more information.

At an actual construction site at the Port of Newcastle, students receive classroom instruction as well as develop construction skills and knowledge while working with a wide variety of trades people. These credits are offered in grades 11 and 12. Students can participate in the program twice.

Note: transportation for Gold Collar students is provided from B.H.S. to and from the worksite.

APPRENTICESHIPS

Ontario Youth Apprenticeship Program (OYAP)

The Ontario Youth Apprenticeship Program allows Ontario secondary school students to fast track into a skilled trade of their choice. There are two types of OYAP programs available to students:

The first option is a unique combination of **community college trades training** and a high school **Cooperative Education Program**. Students are registered as apprentices and attend college one to three days a week to earn their Basic Level 1 of the trade qualifications. Students spend the remainder of the week at work placements earning two to three high school credits while accumulating hours toward their apprenticeship requirements. This full-day program usually takes place during the second semester.

- Positions in this program are only available to students in Grade 12 who are eligible to graduate.
- Students who return for a fifth year will only be allowed to participate with special permission.
- Student involvement hours must be completed and documented at the time of indenturing.

- Candidates demonstrating success in the recommended Math, Science, English and Technological Studies will be interviewed by a panel from both education and industry to gain entrance into the program
- Successful candidates will require registration in a two or three credit Cooperative Education Program and two Dual Credits during second semester. *A related Cooperative Education placement during Grade 11 is highly recommended.*
- A transportation allowance is available to subsidize the cost of attending the College Program.
- The cost of College training is absorbed by the Ministry of Training Colleges and Universities.

Note: OYAP Level 1 program students will receive Dual Credits along with their Cooperative Education credits. For further information about Dual Credits, speak to a Guidance Counsellor at your school.

Tentative Accelerated Programs for February 2020

Program Training Delivery Agent	Auto Service Tech.	Welding	Hairstylist	Plumbing	General Carpenter	Industrial Mechanic Millwright	Cook	Electrical
Fleming College					X			
Durham College	X	X		X		X	X	X
Durham D.S.B.			X					

A second form of OYAP participation is available to any **Cooperative Education** student, with a **placement** in an Apprenticesable Trade, who is at least 16 years of age and has 16 credits. These OYAP students do not complete their trade's Basic Level 1 course at a Community College. Instead, Student Learning Plans are developed based on training standards for their trade.

- Students can be registered as apprentices and apply any competencies achieved through their Cooperative Education placement toward their apprenticeship.
- An OYAP student in this program can participate in any of more than 150 recognized trades and earn potentially between two and four secondary credits.

For more information, contact your Guidance or Cooperative Education Teacher, or visit www.kprschoools.ca.

HEALTH AND PHYSICAL EDUCATION

PAF401 Personal and Fitness Activities, Gr. 12 Co-ed Weight Training

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

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

PPL401 Healthy Active Living Education Grade 12 Co-ed

This course focuses on the development of a personalized approach to healthy active living through participation in a variety of sports and recreational activities that have the potential to engage students' interest throughout their lives. Students will develop and implement personal physical fitness plans. In addition, they will be given opportunities to refine their decision-making, conflict-resolution, and interpersonal skills, with a view to enhancing their mental health and their relationships with others.

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

PSK4U1 Exercise Science

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

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

PREREQUISITE: Any Grade 11 university or university/college preparation course in science, or any Grade 11 or 12 open course in Health and Physical Education.

HUMANITIES AND SOCIAL STUDIES

HHS4C1 Families in Canada

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. This course is great for students interested in pursuing sociology, psychology, anthropology, social work, nursing, medicine, teaching or politics at the college level.

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

PREREQUISITE: Any university, college, or university/college preparation course in Social Sciences and Humanities, English, or Canadian and World Studies.

HHS4U1 Families in Canada

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. This course is great for students interested in pursuing sociology, psychology, anthropology, social work, nursing, medicine, teaching or politics at the university level.

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

PREREQUISITE: Any university or university/college preparation course in Social Sciences and Humanities, English, or Canadian and World Studies.

HIP4O1 Personal Life Management

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. This course will teach you the 20 things you wished you learned before leaving high school about 'real life' and 'living on your own' – this is life 101. Course activities include discussion, field trips, guest speakers, role playing, research, simulations and critique of popular media (movies and television).

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

HSB4U1 Challenge and Change in Society

This course focuses on the use of social science theories, perspectives, and methodologies to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour and their impact on society. Students will critically analyse how and why cultural, social, and behavioural patterns change over time. They will explore the ideas of social theorists and use those ideas to analyse causes of and responses to challenges such as technological change, deviance, and global inequalities. Students will explore ways in which social science research methods can be used to study social change. **CREDIT:** 1 **TYPE:** University **GRADE:** 12

PREREQUISITE: Any university or university/college preparation course in Social Sciences and Humanities, English, or Canadian and World Studies.

LANGUAGES – MODERNS

FSF4U1 Core French Grade 12

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 lifelong language learning.

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

PREREQUISITE: FSF3U1 - Core French Grade 11

MATHEMATICS

MAP4C1 College and Apprenticeship Mathematics Grade 12

This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades. Note: This course is recommended to students for whom math is not a requirement for their college program of choice.

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

PREREQUISITE: MBF3C1 - Mathematics of Personal Finance - Grade 11 College Preparation **or** MCF3M1 - Functions - Grade 11 College/University **or** MCR3U1 - Functions - Grade 11 University Preparation

MCT4C1 Mathematics for College Technology Grade 12

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. Note: This is the recommended course for students planning to study science, health science, business, engineering, computer science and other mathematics intensive fields in college.

COURSE NOTE: Students planning to pursue math intensive programs e.g. nursing, business, technology, engineering, etc. in college are encouraged to take MCF3M1 and MCT4C1.

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

PREREQUISITE: MCR3U1 - Functions - Grade 11 University Preparation **or** MCF3M1 - Functions - Grade 11 College/University

MCV4U1 Calculus and Vectors

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.

COURSE NOTE: MHF4U1, Grade 12, Advanced Functions, must be taken prior to or concurrently with MCV4U1, Calculus and Vectors.

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

PREREQUISITE: MHF4U1 - Advanced Functions **or** MHF4UA - Advanced Functions - Enriched

MDM4U1 Mathematics of Data Management

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

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

PREREQUISITE: MCR3U1 - Functions - Grade 11 University Preparation **or** MCF3M1 - Functions - Grade 11 College/University **or** MCR3UA - Functions - Grade 11 Enriched

MEL4E1 Mathematics for Work and Everyday Life Grade 12

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

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

COURSE NOTE: Students **may** enrol in MEL4E without having earned the MEL3E credit

PREREQUISITE: Any Grade 9 or 10 Math course

MHF4U1 Advanced Functions

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

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

PREREQUISITE: MCR3U1 - Functions - Grade 11 University Preparation **or** MCT4C1 - Mathematics for College Technology Grade 12 **or** MCR3UA - Functions - Grade 11 Enriched

SCIENCE

IDC4U1 Forensic Science

This course examines methods of forensic science as it pertains to the relation and application of scientific data to legal issues. The students will study the use of diverse scientific principles and technology to gather data to aid police investigations towards the solving of crimes. An emphasis will be placed on the gathering of crime scene information and analysis of this information, using an interdisciplinary approach, to be used in criminal court cases. A wide range of topics such as fingerprinting, forensic anthropology, forensic entomology, and DNA analysis will be studied as well as the use of a variety of presentation technologies and strategies.

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

PREREQUISITE: Any university or university/college course.

SBI4U1 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.

COURSE NOTE: Recommended previous course: Chemistry, Grade 11, University Preparation.

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

PREREQUISITE: SBI3U1 - Biology - Grade 11 University Preparation **or** SBI3UA - Biology - Grade 11 Enriched

SBI4UA Biology - Grade 12 Enriched

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.

COURSE NOTE: Recommended previous course: Chemistry, Grade 11, University Preparation Enriched courses are subject to enrolment.

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

PREREQUISITE: SBI3U1 - Biology - Grade 11 University Preparation **or** SBI3UA - Biology - Grade 11 Enriched

SCH4C1 Chemistry - 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.

COURSE NOTE: Recommended previous course: Math, Grade 10 Academic or MFM2P1, Applied

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

PREREQUISITE: SNC2D1 - Science - Grade 10 Academic **or** SNC2P1 - Science - Grade 10 Applied

SCH4U1 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.

COURSE NOTE: Recommended previous course: Math, Grade 11, University Preparation

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

PREREQUISITE: SCH3U1 - Chemistry - Grade 11 University Preparation **or** SCH3UA - Chemistry - Grade 11 Enriched

SCH4UA Chemistry - Grade 12 Enriched

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.

COURSE NOTE: Recommended previous course: Math, Grade 11, University Preparation. Enriched courses are subject to enrolment.

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

PREREQUISITE: SCH3U1 - Chemistry - Grade 11 University Preparation **or** SCH3UA - Chemistry - Grade 11 Enriched

SPH4C1 Physics - College Preparation

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

COURSE NOTE: Recommended previous course: MBF3C1, Math, Grade 11, College

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

PREREQUISITE: SNC2D1 - Science - Grade 10 Academic **or** SNC2P1 - Science - Grade 10 Applied

SPH4U1 Physics - Grade 12 University Preparation

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

COURSE NOTE: Recommended previous course: Math, Grade 11, University Preparation

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

PREREQUISITE: SPH3U1 - Physics - Grade 11 University Preparation **or** SPH3UA - Physics - Grade 11 Enriched

SPH4UA Physics - Grade 12 Enriched

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

COURSE NOTE: Recommended previous course: Math, Grade 11, University Preparation. Enriched courses are subject to enrolment.

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

PREREQUISITE: SPH3U1 - Physics - Grade 11 University Preparation **or** SPH3UA - Physics - Grade 11 Enriched

TECHNOLOGY

Hair & Aesthetics

TXJ4E1 Hairstyling and Aesthetics

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

COURSE NOTE: Pending approval this course will feature a dual credit component with Fleming College.

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

PREREQUISITE: TXJ3E1 - Hairstyling and Aesthetics

Hospitality (Cooking)

TFJ4C1 Hospitality and Tourism

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

CREDIT: 1

TYPE: College **GRADE:** 12

PREREQUISITE: TFJ3C1 - Hospitality and Tourism

TFJ4E1 Hospitality and Tourism

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.

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

PREREQUISITE: TFJ3C1 - Hospitality and Tourism or TFJ3E1- Hospitality and Tourism

Technological Design

TDJ4M1 Technological Design

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 will explore career opportunities and the postsecondary education and training requirements for them. **COURSE NOTE:** This course has an Architectural Design focus with projects related to a variety of applications such as technical drawings, perspective, architectural design drawings and specifications. Our focus will be on exploring current trends in home design, space planning, environmentally friendly building, urban planning and landscape design. Students will have the opportunity to complete 3D Modeling, 3D Printing and model making assignments to explore various ways technology is being used in design and product development.

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

PREREQUISITE: TDJ3M/301 - Technological Design or permission from the instructor