

COURSE CALENDAR 2015-2016

Grade 9 to 12

EAST NORTHUMBERLAND SECONDARY SCHOOL YOUR SUCCESS STORY

We are proud of the fact that:

- ENSS has had many all Ontario championship teams in volleyball, badminton, gymnastics, curling, basketball, cross-country, and track and field.
- We have had many individual and team championships at the Kawartha, Bay of Quinte, and regional levels of competition.
- ENSS students get involved. Blood donor clinics, Christmas adopt-a-child program for the Salvation Army, Relay For Life, 30 Hour Fast, Community Challenge, Children's Wish Foundation, drama productions for the community, and music nights are just a few of the activities in which our students are involved. ENSS students have made our school one of the top high schools in all of Canada for raising money each year for the Terry Fox Marathon of Hope.
- ENSS students choose from a wide range of extracurricular activities including: bands, drama clubs, teams, Student Government, yearbook, newspaper, student exchanges, dances, Career Days, College and University days.
- ENSS students enjoy the widest possible range of work experience through our Cooperative Education program.
- ENSS students experience up-to-date "hands-on" computer technology in labs and a school wide network.
- ENSS students achieve many successes at college and university. ENSS has earned a reputation for academic excellence.
- ENSS students maintain excellent attendance records.
- ENSS students enjoy one of the lowest drop-out rates within the provincial public education system.
- All courses at ENSS are designed to encourage success, resulting in a high rate of student achievement.
- ENSS provides varied program pathways to assist students in career and post-secondary planning.

EAST NORTHUMBERLAND SECONDARY SCHOOL

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COURSE CALENDAR 2015 - 2016

The courses offered by this school have been developed according to the requirements of the Ontario Ministry of Education.
Courses will only run if a sufficient number of students request the course.
PLEASE NOTE: All courses are available to both male and female students.

TRADITION EXCELLENCE HEART

Dear Students and Parent(s)/Guardian(s)

We are pleased to provide you with a copy of our 2015-2016 Course Selection Booklet. This is an important booklet as it provides students and parents with information on diploma and certificate requirements and a comprehensive overview of the academic program and student support services at East Northumberland. This Course Selection Booklet is a critical resource in the course selection process and in educational planning for students.

For parents and guardians, the face of education has changed substantially over the past decade. East Northumberland Secondary School offers a wide range of courses and programs designed to engage all students and help foster success for all learners. There are more opportunities than ever before for students to become qualified and ready for the world which awaits them after high school.

The world of work and its requirements in education are changing at a tremendous rate. We are constantly reviewing and modifying courses and programs to try to meet the demands of this changing world. In this regard, we are pleased to include information in this booklet on our new and revised career-directed programs. These programs are an exciting addition to our program offerings and provide students with excellent training in pathways that lead to apprenticeships, post-secondary education (College and University) and/or direct entry to the workplace.

The booklet also highlights the support services and alternative education programs that we have developed and initiated in the past few years to support students in their studies. These programs and services compliment the academic and vocational programs at our school in an effort to engage all students in the pursuit of education, regardless of their ability, interest, learning style, and personal pursuits. We offer program for all learners.

East Northumberland Secondary School is extremely proud of the wide range of co-curricular activities that we offer our student body. Teachers volunteer countless hours coaching and running clubs for students before, during, and after school. We encourage all students to get involved in after school activities. Research clearly demonstrates that students involved in after school programs perform better academically.

The decision to offer any course is truly dependent on the number of students who select the course in February; therefore, it is important for students to give a great deal of thought to each one of their course selections and to choose their courses wisely. It is important for students to consult with their teachers, parents, and teacher-counsellors in Student Services to facilitate effective course choice and academic program planning.

East Northumberland Secondary School has established itself as a leader in the education community. Its proud history represents a foundation and tradition of excellence developed and forged by former students, school staff, parents and guardians, administrators, and members of the community. We honour this tradition and challenge our present and future students to achieve or surpass the success, community service, and pride in our school of those who have gone before you.

Good luck with your course selections and program planning. Please remember to contact Student Services or any member of the school staff or administration should you have questions or require assistance with course selections.

Yours truly

Jeff Kawzenuk
Principal

THE PROVINCIAL SECONDARY SCHOOL LITERACY DIPLOMA REQUIREMENT

All students who enter Gr 9 on or after 1 September 1999 or in subsequent years **must** successfully complete the Provincial Secondary School Literacy Diploma Requirement in order to earn a secondary school diploma. This requirement will be based on the Ontario curriculum expectations for language and communication particularly reading and writing – up to and including Gr 9.

Students who are unsuccessful **may** try the Provincial Secondary School Literacy Test again each year when it is administered by the Education Quality and Accountability Office (EQAO) or take the Literacy Course after two attempts of the Provincial Literacy Test.

Accommodations:

The necessary accommodations must be made to ensure that students who are receiving special education programs and services and who have an Individual Education Plan (IEP) have a fair and equal opportunity to successfully complete the Provincial Secondary School Literacy Diploma Requirement. Students needing such accommodations may or may not have been formally identified as exceptional by an Identification, Placement, and Review Committee (IPRC). The accommodations made will be the same as those that are set out in the student's IEP and/or that are available to the student in the course of his/her regular school work, including examinations and other forms of evaluation. While accommodations such as alternative forms of print and extra time are acceptable, the actual content of the Provincial Secondary School Literacy Diploma Requirement must not be altered.

Deferrals:

The principal will determine, upon the request of a parent/guardian or an adult student, whether or not a deferral should be granted and, if so, for what period of time. A principal may also initiate consideration of a deferral.

Exemptions:

Students whose IEP indicates that the student is not working towards the attainment of a secondary school diploma, may with parental consent and the approval of the principal, be exempted from participating in the secondary school diploma requirement.

LEVEL OF INSTRUCTION - for Grades 9-12

- Courses at ENSS may be offered at the following levels: academic, applied, open, locally developed (transitional), workplace, college, university or university/college.

Academic Level (D):

- Academic courses develop students' knowledge and skills through the study of theory and abstract problems.

Applied Level (P):

- Applied courses focus on the transitional concepts of a subject, and develop students' knowledge and skills through practical applications and concrete examples.

Open Level (O):

- Courses in the Open Program 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.

Locally Developed Course (L):

- Courses for students who have difficulty in meeting the expectations outlined in Grades 7 and 8.

Workplace Preparation (E):

- Courses in the Workplace Program 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, college programs, or other training programs.

College Preparation (C):

- Courses in the College Program 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.

University Preparation (U):

- Courses in the University Program are designed to equip students with the knowledge and skills they need to meet entrance requirements for university programs.

University/College Preparation (M):

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

Credit Recovery Courses (R):

- Credit Recovery is a process whereby students can recover the credit for a failed course, in less than the 110 hours required to repeat the whole course. Credit Recovery focuses not on time, but on what key learning the student must attain before earning the credit. Credit Recovery codes have no credit value, and will not appear on transcripts or report cards, although they may appear on timetables.

ENRICHMENT OPPORTUNITIES AT ENSS

ENSS has many opportunities for enrichment. Students can participate in clubs, contests, and field trips. These opportunities are available in all subject areas, to extend and enhance the knowledge learned in class. It gives students the ability to delve deeper into a topic or subject that they find interesting. Please contact Student Services to learn more about these enrichment opportunities. The more students become involved in these opportunities, the greater the depth of knowledge they acquire and the more enjoyable school becomes.

EXPLANATION OF COURSE CODES

These letters identify the subject, the course group and the course. The first digit indicates the year in which a student will normally take a particular course, although there is flexibility in this regard.

Grade Level is expressed as follows:

1 = Grade 9	3 = Grade 11
2 = Grade 10	4 = Grade 12

Level of difficulty is expressed as follows:

D = Academic P = Applied E = Workplace C = College

O = Open M = University/College U = University

L = Locally Developed Course (most of which can count as a compulsory credit)

The final digit of this code indicates:

1 = 1 credit 2 = 2 credits 3 = 3 credits 4 = 4 credits 5 = .5 credits

B = Male Gender Course Credit

C = Single Credit Coop

D = Double Credit Coop

E = E-Learning Credit

F = Extended French Credit

G = Female Gender Course Credit

L = Literacy Initiative Credit

N = Literacy & Life Skills

R = Credit Recovery Credit

W = SALEP Credit

X = Pathways Coop Credit

Y = OYAP Coop Credit

Z = Alternative Education

AN OVERVIEW OF THE SECONDARY SCHOOL PROGRAM

The goal for a secondary school program is to provide students an awareness of who they are, what skills, interests and aptitudes they have and where they are going. The program will allow most students to graduate in 4 years. When students enter Grade 9, they will have a choice of a variety of program stream options – Academic, Applied, Open, and Locally Developed. The program choice made should be guided by an understanding of how they best learn and the kinds of challenges that will be presented in courses. In Grade 10, students will choose from the same streams but will make their choices with a tentative destination in mind. **Those wishing to pursue further studies after secondary school will need to be aware that some Grade 11 courses designed for university and college will have Academic Grade 10 courses as a prerequisite.**

Students who wish to change from one stream to another in a given course at the end of Grade 9 may be advised of additional work that they should complete prior to entering the Grade 10 course. While this work is not mandatory, its completion will ensure that the student is well prepared for the material that will be presented in Grade 10.

Grade 10 students will take part in a province-wide assessment administered by the Education Quality and Accountability Office (EQAO). Successful completion of this assessment is a requirement for graduation. An additional requirement for graduation is that students must complete 40 hours of community involvement during their years in secondary school.

Courses in Grade 11 and 12 are designated as: Open, Workplace, College, College/ University, or University. The intention is that the content and learning opportunities within each of these streams match the needs of students as they progress toward that destination. Students intending to enter the world of work after secondary school will be encouraged to participate in work experience and co-operative education opportunities. The curriculum for each stream has been developed in consultation with representatives from the institutions and businesses that receive students after graduation.

THE DEFINITION OF A CREDIT

A "full-credit" course is defined as a minimum of 110 hours of scheduled instruction.

FOR STUDENTS WHO START SECONDARY SCHOOL ON OR AFTER 1 SEPTEMBER 1999.

ONTARIO SECONDARY SCHOOL DIPLOMA (OSSD)

In order to earn an ONTARIO SECONDARY SCHOOL DIPLOMA, you must earn a minimum of thirty (30) credits, perform 40 hours of community involvement and successfully complete the Provincial Secondary School Literacy Diploma Requirement in Grade 10. Of the 30 credits required to graduate, 18 are compulsory and 12 are electives.

Compulsory Credits (total of 18)

- 4 English (1 credit per grade)
- 1 French-as-a-second language
- 3 Mathematics (at least 1 credit in Grade 11, 12)
- 2 Science
- 1 Canadian History
- 1 Canadian Geography
- 1 Arts
- 1 Physical Education and Health
- 1 Civics and Career Studies
- 1 of English or French as a second language, OR a Native language, OR a classical or international language, OR a Social Science, OR a Canadian and World Studies OR Guidance and Career Education OR Co-operative Education
- 1 of Phys Ed, Music, Art, Drama **OR** Business/Entrepreneurial Studies **OR** Co-operative Education
- 1 of Grade 11, **OR** 12 Science **OR** Grade 9-12 Technology or Computer Studies **OR** Co-operative Education

*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.

**A maximum of 2 credits in Co-operative Education can count as compulsory credits.

***May include up to four credits achieved through approved dual credits.

AND Elective Credits (total of 12)

12 credits from available courses

NOTE: In order to meet the requirements for a graduation compulsory credit courses and successfully complete them, a student who is not successful in a compulsory credit may repeat it, undertake a course at a different level of difficulty or undertake a different course from a guideline that fulfills the compulsory credit requirements.

Additional Requirements

- 40 hours community involvement
- Successful completion of the Provincial Secondary School Literacy Diploma Requirement

REQUIREMENTS FOR THE ONTARIO SECONDARY SCHOOL CERTIFICATE

- The Ontario Secondary School Certificate is granted on request to students who leave school before earning the Ontario Secondary School Diploma, provided 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 Studies

Optional credits (total of 7)

- 7 credits selected by the student from available courses

Dance

ATC1O1 Dance "Dance For Life"

This course gives students the opportunity to explore their technical and compositional skills by applying the elements of dance and the tools of composition in a variety of performance situations. Students will generate movement through structured and unstructured improvisation, demonstrate an understanding of safe practices with regard to themselves and others in the dance environment, and identify the function and significance of dance within the global community. The course will offer a range of traditional and popular dance styles, including forms of "Contemporary" dance and "Ballroom" dances.

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

ATC2O1 Dance "Dance Unlimited"

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

ATC3O1 Dance "Dance Artistic"

This course emphasizes the development of students' movement vocabulary relating to global dance genres, and of their understanding of the elements of dance and the tools of composition in a variety of performance situations. Students will research and explain how physical, intellectual, and artistic skills developed in dance can be applied in a wide range of careers. They will apply technologies and techniques throughout the process of creation and presentation, and reflect on how studies in the dance arts affect personal identity.

PREREQUISITE: ATC2O1

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

ATC4E1 Dance

This course enables students to develop performance and interpersonal skills through the study of dance. Students will apply the elements of dance and the tools of composition to develop a physical vocabulary that can be used to create and communicate through dance. Students will research and explain how physical, intellectual, and artistic skills developed in the dance arts are transferable to a wide range of careers and workplace environments. They will develop an understanding of practices associated with healthy living, the benefits of self-discipline, and the importance of continuing engagement in the arts.

PREREQUISITE: ATC3O1

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

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.

PREREQUISITE: ATC3O1

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

Drama

ADA1O1 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. Performing an original one act play is one of the main focuses of the course. Original scripts are brought to the stage to be shown to parents, siblings, friends, and the general public.

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

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

ADA301 Dramatic Arts

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

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

ADA4M1 Dramatic Arts: Production

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

PREREQUISITE: ADA301

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

Music**AMI101 Instrumental - Band (Experienced)**

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. This course is for students with some previous elementary instrumental music experience who wish to broaden their music education by learning to play woodwind, brass, or percussion instruments (NOT GUITAR) as practised in class time with the Junior Band. If you were unable to fit music in your timetable in Gr. 9, you can take this class in Gr 10.

COURSE NOTE: For students with some music experience.

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

AMU101 Instrumental - Band (Beginner)

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. This course is for students with no previous elementary instrumental music experience.

COURSE NOTE: This course is for beginners. CREDIT: 1 **TYPE:** Open **GRADE:** 9

AMV101 Vocal Music

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

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

AMG2O1 Guitar Music

This course emphasizes performance of music at an intermediate level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history. No previous experience is necessary; you will study note reading, chord techniques, and musical styles, but you must supply your own classical or acoustic guitar. Some guitars may be rented through the Music Department.

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

AMI2O1 Instrumental – Band

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

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

AMJ2O1 Vocal Jazz

This course is for students who are interested in being part of the Razzmajazz performing group. Auditions WILL BE necessary.

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

AMV2O1 Vocal Music

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

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

AMG3O1 Guitar Music

If you have completed AMG2O1 and would like to continue learning more about the guitar and guitar styles, this is the course for you. You must supply your own acoustic or classical guitar. Some guitars may be available for rental through the Music Department.

PREREQUISITE: AMG2O1

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

AMI3M1 Instrumental Band

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

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

AMJ3M1 Vocal Jazz

This course is for students who are interested in being part of the Razzmajazz performing group. Auditions WILL BE necessary.

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

AMV3M1 Vocal Music

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

PREREQUISITE: AMV201**CREDIT: 1 TYPE: University/College GRADE: 11****AMG4M1 Guitar Music**

The music is more challenging and thus rewarding. Students must supply their own acoustic or classical guitar.

PREREQUISITE: AMG301**CREDIT: 1 TYPE: University/College GRADE: 12****AMI4M1 Instrumental Band**

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

PREREQUISITE: AMI3M1**CREDIT: 1 TYPE: University/College GRADE: 12****AMJ4M1 Vocal Jazz**

Students in this course will be part of the Razzmajazz performing group. The study and performance of jazz and popular musical styles will be emphasized. Auditions WILL BE necessary.

PREREQUISITE: AMJ3M1**CREDIT: 1 TYPE: University/College GRADE: 12****AMV4M1 Vocal Music**

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

PREREQUISITE: AMV3M1**CREDIT: 1 TYPE: University/College GRADE: 12****Visual Art****AVI101 Drawing, Painting, Design, Sculpture**

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**AVI201 Drawing, Painting, Design, Sculpture**

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**AWA301 Crafts General**

This course focuses on studio activities in one or more of the visual arts. Students will create art works that explore a wide range of subject matter, and will evaluate art works using specific criteria. They will also examine historical and cultural contexts of Western art (including Canadian art) and art from various world cultures to support their study of specific media. The major emphasis will be working with clay, both free form and using a pottery wheel.

CREDIT: 1 TYPE: Open GRADE: 11

AWD3M1 Applied Design

This course provides students with opportunities to further develop their skills and knowledge in visual arts. Students will explore a range of subject matter through studio activities, and will consolidate their practical skills. Students will also analyze art works and study aspects of Western art history, as well as, Canadian art forms and art forms from various parts of the world. This course focuses on Graphic Design & Illustration and the creation of a portfolio.

PREREQUISITE: AVI1O1 or AVI2O1

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

AWM3M1 Drawing and Painting

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

PREREQUISITE: AVI1O1 or AVI2O1

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

AVI4E1 Visual Arts

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

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

AWD4M1 Applied Design

Through graphic design and printmaking, this course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyze art forms; use theories of art in analyzing and producing art; and increase their understanding of stylistic changes in modern and contemporary Western art, Canadian (including Native Canadian) art, and art forms from various parts of the world. Students will produce a body of work that demonstrates a range of skills using diverse media.

COURSE NOTE: Recommendation: AWD3M1/AWM3M1

PREREQUISITE: AVI1O1 or AVI2O1

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

AWN4M1 Fine Art – Painting

With a major painting project and use of mixed media, this course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyze art forms, use theories of art in analyzing and producing art, and increase their understanding of stylistic changes in modern and contemporary Western art, Canadian (including Native Canadian) art, and art forms from various parts of the world. Students will produce a body of work demonstrating a personal approach.

COURSE NOTE: Recommendation: AWM3M1/AWD3M1

PREREQUISITE: AVI1O1 or AVI2O1

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

AWR4M1 Magic in the Dark - Film Study

This senior level survey course is an examination of the history, aesthetics, and theory of film. Students will study film making from its origins to the present day. Students will view and respond to films of prominent international directors and will study the theories, concepts and techniques of film making including direction, cinematography, editing, and sound design. The political uses and abuses of film throughout its history will be addressed and the power of film as propaganda and social influence will be explored. Creative projects will allow students to experiment with the practical application of the theories studied.

PREREQUISITE: Any Senior Arts Course.

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

BUSINESS

BTT101 Introduction to Information 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. Course Features: Students will be introduced to essential skills required for all aspects of the Microsoft Office software package. This course will provide students with software applications skills which will benefit them in all of their other subjects.

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

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. Course Features: Students will participate in an online School Stock Market Competition. Optional Field Trips: The Hockey Hall of Fame, Quinte Mall.

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

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. **Course Features:** Use of Simply Accounting Quickbooks and Microsoft Excel software.

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

BDI3C1 Introduction to Entrepreneurial Studies

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

Course Features: Students may also apply to the Government of Ontario Summer Company program by using the Venture Plan they have created during the course.

CREDIT: 1 **TYPE:** College **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. Course Features: Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice.

Optional: Field trips to the Hockey Hall of Fame.

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

BMX3E1 Introduction to Retail and Services Marketing

This course focuses on marketing activities in the retail and service sectors. Students will examine trends and global influences on marketing decisions, and will learn about the importance of customer service in developing a customer base and maintaining customer loyalty. Through hands-on learning, students will develop personal selling and information technology skills that will prepare them for a variety of marketing-related positions in the workplace.

Course Features: Through hands-on learning, students will develop personal selling and information technology

skills that will prepare them for a variety of marketing-related positions in the workplace. Optional: Field trips to professional sporting events and Hockey Hall of Fame.

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

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 further develops accounting methods for assets and introduces accounting for partnerships, corporations, and sources of financing. **Course Features:** Guest speakers from professional accounting designations - Canadian Institute of Chartered Accountants, Certified General Accountants of Ontario, Possible class field trips to service, merchandising, and manufacturing companies.

COURSE NOTE: Course is strongly recommended for students planning to pursue Business Studies at the college or university level.

PREREQUISITE: BAF3M1

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

BBB4M1 Introduction to International Business

This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for post-secondary programs in business, including international business, marketing, and management. Students will participate in the Junior Achievement sponsored program G.L.O.B.E. (Global Learning of Business Enterprise) by operating an import/export business with a classroom in another country. Guest speakers and field trips to local businesses conducting business internationally will be included.

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

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

CANADIAN & WORLD STUDIES

Geography

CGC1D1 Geography of Canada

This course explores Canada's distinct and changing character and the geographic systems and relationships that shape it. Students will investigate the interactions of natural and human systems within Canada, as well as Canada's economic, cultural, and environmental connections to other countries. Students will use a variety of geotechnologies and inquiry and communication methods to analyse and evaluate geographic issues and present their findings.

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

CGC1P1 Geography of Canada

This course focuses on geographic issues that affect Canadians today. Students will draw on personal and everyday experiences as they learn about Canada's distinct and changing character and the natural and human systems and global influences that shape the country. Students will use a variety of geotechnologies and inquiry and communication methods to examine practical geographic questions and communicate their findings.

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

CGC1PN Geography of Canada - Locally Developed

This course draws upon students' everyday experiences to help them learn about the geography of Canada and the country's place in the global community. Students will have an opportunity to study the country's land forms, climate, soils, plants, animals, and human activities in order to understand Canada's physical character and diversity.

The emphasis of the course will be on the practical implications of the study of geography and will provide the students with skills in using the tools of geography in their lives.

COURSE NOTE: This course should be selected by students who have an individual education plan (IEP).

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

CGG301 Regional Geography: Travel and Tourism

This course focuses on travel and tourism as the vehicle for studying selected world regions. Using a variety of geotechnologies and inquiry and communication methods, students will conduct and present case studies that develop their understanding of the unique characteristics of selected world regions; the environmental, cultural, economic, and political factors that influence travel and tourism; and the impact of the travel industry on communities and environments around the world.

PREREQUISITE: CGC1D1 or CGC1P1 or SNC2D1 or SNC2P1 or CGC1DF

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

History, Civics, Economics, Law & Politics

CHC2D1 Canadian History in the Twentieth Century

This course explores the local, national, and global forces that have shaped Canada's national identity from World War I to the present. Students will investigate the challenges presented by economic, social, and technological changes and explore the contributions of individuals and groups to Canadian culture and society during this period. Students will use critical-thinking and communication skills to evaluate various interpretations of the issues and events of the period and to present their own points of view.

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

CHC2L1 Canadian History - Locally Developed

This course emphasizes strengthening history-related knowledge and skills to prepare students for success in everyday life, in the workplace, and in Gr 11 Workplace courses. Students are given the opportunity to continue developing their skills in reading, writing, and oral language through relevant and practical History activities. They are given opportunities to improve their subject-area knowledge and skills and to practice using them in order to strengthen their literacy skills. This course encourages students to examine their conceptual understandings and beliefs, develop and enhance their critical thinking skills, and engage in meaningful dialogue with teachers and with peers.

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

CHC2P1 Canadian History in the Twentieth Century

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

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

CHV2O5 Civics

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in local, national, and global contexts, about political reactions to social change, and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them.

COURSE NOTE: This is a half-credit course, mandatory for everyone.

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

CHW3M1 World History to the Sixteenth Century

This course investigates the history of humanity from earliest times to the sixteenth century. Students will analyse diverse societies from around the world, with an emphasis on the political, cultural, and economic structures and

historical forces that have shaped the modern world. They will apply historical inquiry, critical-thinking, and communication skills to evaluate the influence of selected individuals, groups, and innovations and to present their own conclusions.

PREREQUISITE: CHC2P1 or CHC2D1 or CHC2DF

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

CLU3M1 Understanding Canadian Law

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

PREREQUISITE: CHC2D1 or CHC2P1 or CHC2DF

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

CHM4E1 Adventures in World History

This course explores a variety of human experiences in world history from earliest times to the present. Students will learn about a wide range of societies and cultures, examining such things as systems of government, technological developments, work, art, and religion. Students will apply methods of research and inquiry to examine human societies in many different times and places and to communicate points of view about their findings.

PREREQUISITE: CHC2D1 or CHC2P1 or CHC2LN

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

CHY4U1 World History: The West and the World

This course investigates the major trends in Western civilization and world history from the sixteenth century to the present. Students will learn about the interaction between the emerging West and other regions of the world and about the development of modern social, political, and economic systems. They will use critical-thinking and communication skills to investigate the historical roots of contemporary issues and present their conclusions.

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

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

CLN4U1 Canadian and International Law

This course examines elements of Canadian and international law in social, political, and global contexts. Students will study the historical and philosophical sources of law and the principles and practices of international law and will learn to relate them to issues in Canadian society and the wider world. Students will use critical-thinking and communication skills to analyse legal issues, conduct independent research, and present the results of their inquiries in a variety of ways.

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

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

Native Studies

NAC1O1 Expressing Aboriginal Cultures

This course examines Aboriginal cultures in Canada through an exploration of art forms – painting, sculpture, storytelling, dance, and music – created by Aboriginal artists. Students will learn to identify Aboriginal art forms and describe relationships between the art forms and Aboriginal traditions, philosophy, and culture. Students will also create their own art forms to express their understanding of Aboriginal identity, relationships, and sovereignty.

COURSE NOTE: Guest speakers visit the classroom throughout the semester. Attendance is crucial since portions of the evaluation is based on projects and assignments involving community members. This course has strong ties to nature and the outdoors.

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

NAC201 Aboriginal Peoples in Canada

This course emphasizes historical and contemporary issues that affect the relationship between Aboriginal peoples and Canadian governments. Students will examine legal, political, social, and economic issues; key aspects of the Indian Act and its revisions that have an impact on the daily lives of Aboriginal persons; the different types of relationships that Aboriginal peoples have established with other nations throughout history; and the methodology of historical inquiry. Self, Community, Nation, and the Land/Mother Earth are four aspects of the Medicine Wheel that students will examine in this course. Students will have the opportunity to work individually and/or collaboratively discussing and analyzing a variety of traditional and contemporary First Nations, Metis, and Inuit cultures. Students will demonstrate an understanding of First Nations, Metis, and Inuit World views as they learn experientially by applying concepts and conventions to historic and contemporary events that affect laws, governance, and self-discrimination of First Nations, Metis, and Inuit peoples.

COURSE NOTE: Guest speakers visit the classroom throughout the semester. Attendance is crucial since portions of the evaluation is based on projects and assignments involving community members. This course has strong ties to nature and the outdoors.

CREDIT: 1 TYPE: Open GRADE: 10

NDW4M1 Issues of Indigenous Peoples in a Global Context

This course provides students with an overview of the issues and challenges that confront indigenous peoples worldwide. Students will develop an understanding of the concerns and aspirations of the world's indigenous population, plan and conduct research on global issues that have an impact on indigenous peoples, and use information technology to consult materials related to the views of indigenous peoples throughout the world.

COURSE NOTE: Recommendation: Students who have taken university(U) level or University/College (M) level courses. Geared towards students applying to post-secondary. Guest speakers visit the classroom throughout the semester. Attendance is crucial since portions of the evaluation is based on projects and assignments involving community members. This course has strong ties to nature and the outdoors.

CREDIT: 1 TYPE: University/College GRADE: 12

ENGLISH

ENG1D1 English

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

ENG1L1 English - Locally Developed

This course emphasizes the key reading, writing, oral communication and thinking skills students need for success in secondary school and in their daily lives. In particular, the program works toward preparing students to enter the Grade 10 Transitional English course, and to complete the literacy test successfully. Students read a variety of narrative and expository forms, poetry, drama and practice skills necessary for clear and accurate spoken and written language. In particular, course activities will help develop confidence and self-esteem and provide motivation to succeed in school and life.

CREDIT: 1 TYPE: Locally Developed GRADE: 9

ENG1P1 English

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

ENG2D1 English

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

PREREQUISITE: ENGD1 or ENG1P1

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

ENG2L1 English

This course continues to emphasize the key reading, writing, oral communication and thinking skills introduced in the Gr 9 Transitional English course. Focusing on skills to ensure success in secondary school and in daily living, this program works toward preparing students to enter the Gr 11 course in English, Workplace, and to complete the Gr 10 Test of Reading and Writing Skills successfully. As with the Gr 9 course, students interact with a variety of genre and continue to develop skills necessary for clear and accurate spoken and written language.

PREREQUISITE: ENG1LN or ENG1P1

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

ENG2P1 English

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

PREREQUISITE: ENGD1 or ENG1P1 or ENG1DA

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

EMS3O1 Media Studies

This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analysing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.

PREREQUISITE: ENG2D1 or ENG2P1

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

ENG3C1 English

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

PREREQUISITE: ENG2P1 or ENG2D1

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

11

ENG3E1 English

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

PREREQUISITE: ENG2P1 or ENG2LN or ENG2D1

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

ENG3U1 English

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

PREREQUISITE: ENG2D1

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

ENG4C1 English

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

PREREQUISITE: ENG3C1 or ENG3U1

CREDIT: 1 **TYPE:** College

ENG4E1 English

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

PREREQUISITE: ENG3E1 or ENG3C1 or ENG3U1

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

ENG4U1 English

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

PREREQUISITE: ENG3U1

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

EWC4C1 English

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.

PREREQUISITE: ENG3C1

EWC4U1 English

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

PREREQUISITE: ENG3U1

CREDIT: 1 TYPE: University GRADE: 12

IDC4UL Interdisciplinary Studies - Reading Tutor

This course prepares and motivates students to provide leadership and assistance to others in their schools and communities. Students will develop skills in communication, interpersonal relations, coaching, leadership, teamwork, and conflict management, and apply them in roles such as tutoring, mentoring, and student council involvement. Students will also learn the value and complexity of social diversity, while acquiring an appreciation of the importance of contributing to their communities and helping others throughout their lives. Students may be interviewed prior to the start of the course.

COURSE NOTE: Recommendation: ENG3U1

PREREQUISITE: GLC2O5

CREDIT: 1 TYPE: University GRADE: 12

OLC4OL 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. Eligibility requirement: Students who have been eligible to write the OSSLT at least once and who have been unsuccessful at least once are eligible to take the course. (Students who have already met the literacy requirements for graduation may be eligible to take the course under special circumstances, at the discretion of the principal.)

CREDIT: 1 TYPE: Open GRADE: 12

EXTENDED FRENCH
CGC1DF Geography of Canada-Extended French

This course explores Canada's distinct and changing character and the geographic systems and relationships that shape it. Students will investigate the interactions of natural and human systems within Canada, as well as Canada's economic, cultural, and environmental connections to other countries. Students will use a variety of geotechnologies and inquiry and communication methods to analyse and evaluate geographic issues and present their findings.

CREDIT: 1 TYPE: Academic GRADE: 9

FEF1DF Extended French

This course emphasizes the expansion of students' oral communication, reading, and writing skills through the study of themes that reflect their interests. Students will apply their knowledge of French in discussions, debates,

dramatizations, and oral presentations. Students will read and write in a variety of genres (e.g., poems, articles, brochures) and study at least one short novel intended for a French-speaking audience.

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

CHC2DF Canadian History in the Twentieth Century - Extended French

This course explores the local, national, and global forces that have shaped Canada's national identity from World War I to the present. Students will investigate the challenges presented by economic, social, and technological changes and explore the contributions of individuals and groups to Canadian culture and society during this period. Students will use critical-thinking and communication skills to evaluate various interpretations of the issues and events of the period and to present their own points of view.

COURSE NOTE: Recommendation: FEF2DF

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

FEF2DF Extended French

This course emphasizes the continued development and refinement of students' oral communication, reading, and writing skills as they explore a variety of themes. Students will expand their knowledge and appreciation of francophone culture through the study and interpretation of novels, poems, and plays intended for a French-speaking audience.

PREREQUISITE: FEF1DF

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

FEF3UF Extended French

This course focuses on developing French-language skills through the study of Canadian francophone authors. Students will analyse a range of works and produce written assignments in a variety of genres, including the formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

PREREQUISITE: FEF2DF

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

HSP3MF Introduction to Anthropology, Psychology & Sociology - Extended French

This course introduces the theories, questions, and issues that are the major concerns of anthropology, psychology, and sociology. Students will develop an understanding of the way social scientists approach the topics they study and the research methods they employ. Students will be given opportunities to explore theories from a variety of perspectives and to become familiar with current thinking on a range of issues that have captured the interest of classical and contemporary social scientists in the three disciplines.

COURSE NOTE: Recommendation: CHC2DF and FEF3UF

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

FEF4UF Extended French

This course emphasizes the refinement of French-language skills through the study of Canadian and international francophone literature. Students will interpret literary works, produce written assignments in a variety of genres, and conduct research on a major topic for a written and oral presentation. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

PREREQUISITE: FEF3UF

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

FRENCH

FSF1D1 Core French

This course emphasizes the further development of oral communication, reading, and writing skills. Students will build on and apply their knowledge of French while exploring a variety of themes, such as relationships, social trends, and careers. Thematic readings, which include a selection of short stories, articles, and poems, will serve as

stepping stones to oral and written activities.

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

FSF1P1 Core French

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

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

FSF2D1 Core French

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

PREREQUISITE: FSF1D1

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

FSF2P1 Core French

This course emphasizes the further development of oral communication, reading, and writing skills using a broad-based theme such as adolescence. Students will expand their knowledge of French by studying a series of theme-related topics, such as students' rights and responsibilities, relationships with peers and adults, and part-time jobs.

PREREQUISITE: FSF1D1 or FSF1P1

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

FSF3U1 Core French

This course draws on a variety of themes to promote extensive development of reading and writing skills and to reinforce oral communication skills. Students will gain a greater understanding of French-speaking cultures in Canada and around the world through their reading of a variety of materials, including a short novel or a play. Students will produce various written assignments, including a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

PREREQUISITE: FSF2D1 or FEF2DF

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

FSF4U1 Core French

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

PREREQUISITE: FSF3U1 or FEF3UF

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

GUIDANCE & CAREER STUDIES
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GLE1O1 Learning Strategies 1 - Locally Developed

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: Students who have an individual education plan (IEP) will choose this course code.

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

GLC205 Career Studies

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

COURSE NOTE: This is a half credit course, mandatory for everyone.

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

GLD201 Discovering the Workplace

This course provides students with opportunities to discover and develop the workplace essential skills and work habits required to be successfully employed. Students will develop an understanding of work through practical hands-on experiences in the school and in the community, using real workplace materials. They investigate occupations of interest through experiential learning opportunities, such as work site visits, job shadowing, work experience, simulations, and entrepreneurial projects. This course helps students make plans for continued learning and work.

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

HEALTH & PHYSICAL EDUCATION

Athletic Council

The Athletic Council has been an integral part of ENSS for many years. Their purpose is to provide as many lunch time activities as possible. They are looking for eager, fun, hard-working students who have a lot of school spirit and are willing to give their time to spread **BLUE DRAGON** spirit! Do you fit this description? If you do, we want **YOU!** See a member of this year's AC to get more information on how you can join us next year.

INTERSCHOOLATHLETICS

ENSS Blue Dragon teams and individuals compete in the Bay of Quinte Athletic Association. The BofQ is a member of The Central Ontario Secondary School Association (COSSA), which is a member of the Ontario Federation of School Athletic Associations (OFSAA).

We offer a wide variety of sports that all student-athletes are encouraged to take part in. We pride ourselves on the fact that our athletic program is a reflection of our school's academic excellence. Our student-athletes are known throughout the Province of Ontario for their fine efforts both on and off the playing field.

Each student-athlete has the opportunity to participate at his/her own level of competition. All student-athletes are expected to dedicate themselves to their chosen sport(s) in the same manner they do in the classroom. The Healthy Active Living Department of ENSS encourages all students to participate in the sport(s) of their choice.

Chart of Projected Phys-Ed Related Costs

- **Subject to change**

ITEM	14/15 COST	PROJECTED 15/16 COST
ENSS T-shirt	\$12	\$12
PPL3O1 & PPL4O1 FEE	\$35	\$35

**** In addition, students who play on school teams are required to pay a "user fee". This fee goes to defray the increasing cost of traveling, as well as, the cost of officials and wear and tear on school equipment. It is not meant to be exclusionary to any student. The cost varies per sport. Actual costs are given to students at the start of the seasons.**

PPL1OB Healthy Active Living Education – Male

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They will investigate issues related to healthy sexuality and the use and abuse of alcohol, tobacco, and other drugs, mental health literacy, and will participate in activities designed to develop goal- setting, communication, and social skills.

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

PPL1OG Healthy Active Living Education – Female

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They will investigate issues related to healthy sexuality and the use and abuse of alcohol, tobacco, and other drugs, mental health literacy, and will participate in activities designed to develop goal- setting, communication, and social skills.

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

PPL2OB Healthy Active Living Education – Male

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

PPL2OG Healthy Active Living Education – 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

PAD301 Outdoor Education

This course will focus on the development of skills for participation in a variety of outdoor recreational activities, including self-reliance, teamwork, and planning. Students will acquire knowledge and skills related to the environment in which the activities take place in order minimize the impact of those activities on the environment (e.g., spring/fall camping, hiking, canoeing, etc.) Students will be expected to actively participate in all outdoor activities throughout the course and will experience several full-day excursions and two extended canoe trips (3 & 5 days). Students will also earn industry standard certifications including canoeing (ORCKA Level 1), GPS (Green Check Level 1), Standard First Aid and CPR (Red Cross), WHMIS, Pleasure Craft Operator Card (BOATsmart), and Low Impact Camping.

REQUIREMENT: MUST BE TAKEN WITH SVN3M1

COURSE FEE: \$300

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

PAF301 Personal and Fitness Activities

This personal improvement course is designed for female students who want to improve their fitness level. Activities Will include Aerobics, fitness and weight training, and a health component includes fitness, nutrition, and body Image components. Throughout the course students will develop the skills necessary to maintain and improve their personal health and fitness.

COURSE NOTE: Recommendation: Female students.

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

PPL301 Healthy Active Living Education - 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. Students may be combined with PPL401 in their activity classes. Students will be able to choose their own program from the available activities. Many activities will involve the use of community facilities such as arena, curling club, and bowling alley.

COURSE NOTE: Students MUST wear an ENSS Phys. Ed. T-shirt and dark athletic shorts.

CREDIT: 1 TYPE: Open GRADE: 11

PPZ301 Health for Life

This course helps students develop a personalized approach to healthy living. Students will examine the factors that affect their own health and the health of individuals as members of the community. They will learn about the components of the Vitality approach to healthy living – an initiative that promotes healthy eating, an active lifestyle, and a 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. Students will make use of the weight room, circuit training and other methods of training.

CREDIT: 1 TYPE: Open GRADE: 11

PAD401 Outdoor Education

This course will focus on the development of skills for participation in a variety of outdoor recreational activities, including self-reliance, ethics, personal development, decision making, teamwork, and planning. It will also serve as an introduction to a wide variety of outdoor activities. These will include: canoeing, hiking, cross country skiing, rock climbing, and others that promote lifelong healthy active living. Students will acquire knowledge and skills related to the environment in which the activities take place in order to minimize the impact of those activities on the environment. Students will be expected to actively participate in outdoor excursions throughout the course.

RECOMMENDATION: SVN3E1 or SVN3M1 or PAD301

COURSE FEE: \$300.00

CREDIT: 1 TYPE: Open GRADE: 12

PPL401 Healthy Active Living Education - 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. Students may be combined with PPL301 in their activity classes. Students will be able to choose their own program from the available activities. Many will involve the use of community facilities such as arena, curling club and bowling alley.

COURSE NOTE: Students MUST wear an ENSS Phys. Ed. T-shirt and dark athletic shorts.

CREDIT: 1 TYPE: Open GRADE: 12

PSE4U1 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.

PREREQUISITE: Gr 11 university or university/college Science OR any Gr 11/12 open level Healthy Active Living course.

COURSE NOTE: Highly recommended that students have taken or are going to take a Sr Science credit.

CREDIT: 1 TYPE: University GRADE: 12

MATHEMATICS

MAT1L1 Mathematics - Locally Developed

This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in the Gr 10 Locally Developed courses, and in the Mathematics Gr 11 and Gr 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to further develop their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

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

MFM1P1 Foundations of Mathematics

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.

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

MPM1D1 Principles of Mathematics

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.

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

MAT2L1 Mathematics - Locally Developed

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Mathematics Gr 11 and Gr 12 Workplace Preparation courses. The course is organized by three strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

PREREQUISITE: MAT1LN or MFM1P1

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

MFM2P1 Foundations of Mathematics

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

PREREQUISITE: MFM1P1 or MPM1D1

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

MPM2D1 Principles of Mathematics

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

PREREQUISITE: MPM1D1

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

MBF3C1 Foundations for College Mathematics

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

PREREQUISITE: MFM2P1 or MPM2D1

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

MCF3M1 Functions and Applications

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

COURSE NOTE: If the student has MFM2P1 as the prerequisite, the teacher must provide a recommendation in order for the student to take this course. Please see student services if this is the case.

PREREQUISITE: MPM2D1

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

MCR3U1 Functions and Relations

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: This course is recommended for students wishing to pursue post-secondary maths, science, and engineering programs.

PREREQUISITE: MPM2D1

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

MEL3E1 Mathematics for Everyday Life

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

PREREQUISITE: MPM1D1 or MFM1P1 or MAT2LN or MFM2P1 or MPM2D1

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

MAP4C1 Foundations for College Mathematics

This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.

PREREQUISITE: MBF3C1 or MCF3M1 or MCR3U1

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

MCT4C1 Mathematics for College Technology

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.

COURSE NOTE: MBF3C1 does not work as prerequisite for MCT4C1. THIS COURSE WILL BE PROVIDED THROUGH E-LEARNING. YOU WILL BE CALLED DOWN BY GUIDANCE TO REGISTER FOR THE E-LEARNING COURSE.

PREREQUISITE: MCR3U1 or MCF3M1

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

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.

PREREQUISITE: MHF4U1

COURSE NOTE: MHF4U1 must be taken prior to or concurrently with Calculus and Vectors MCV4U1.

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

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.

PREREQUISITE: MCR3U1 or MCF3M1

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

MEL4E1 Mathematics for Work and Everyday Life

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

thinking.

PREREQUISITE: MEL3E1 or MBF3C1 or MCF3M1 or MCR3U1

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

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.

PREREQUISITE: MCR3U1 or MCT4C1

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

SCIENCE

SNC1D1 Science

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.

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

SNC1L1 Science - Locally Developed

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking and the relationship between science, society, and the environment, to prepare students for success in everyday life. Students explore a range of topics including science in daily life, properties of common materials, life sustaining processes in simple and complex organisms, and electrical circuits. Students have the opportunity to extend mathematical and scientific process skills and to continue developing their skills in reading, writing, and oral language through relevant and practical science activities.

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

SNC1P1 Science

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

SNC2D1 Science

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

PREREQUISITE: SNC1D1 or SNC1P1

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

SNC2L1 Science - Locally Developed

This course builds upon the material covered in the Grade 9 Locally Developed Science course and provides students with an opportunity to study the science in their daily lives. Safe handling of chemicals, environmental issues, energy conservation, weather systems, and earth science will all be presented in a practical manner with frequent connections to the student's daily life outside of school. This course will assist in preparing the student to take their place as a responsible and informed member of a society that is increasingly being faced with issues based on an understanding of science.

PREREQUISITE: SNC1LN or SNC1P1

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

SNC2P1 Science

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

PREREQUISITE: SNC1D1 or SNC1P1

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

SAT331 Astronomy

This course develops students' understanding of the basic concepts of astronomy and astrophysics. Students will study the components of the solar system, galaxy, and universe to gain an understanding of how they evolved and developed. They will study how the scientific process has led to our current understanding of the universe, as well as develop scientific inquiry skills as they research and learn about the laws that govern the universe. Students will also investigate Canada's role in space and astronomy. Topics covered include: night sky, solar system, stars, galaxies, and cosmology.

PREREQUISITE: SNC1D1 or SNC1P1

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

SBI3C1 Biology

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

PREREQUISITE: SNC2D1 or SNC2P1

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

SBI3U1 Biology

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

PREREQUISITE: SNC2D1

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

SCH3U1 Chemistry

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

PREREQUISITE: SNC2D1

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

SPH3U1 Physics

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

PREREQUISITE: SNC2D1

CREDIT: 1 TYPE: University GRADE: 11

SVN3M1 Environmental Science

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. **COURSE FEE: \$300.00**

COURSE NOTE: This course may be selected as a 1 credit stand alone course or a 2 credit Outdoor Activities package. The Outdoor Activities package will contain a focus on experiential education in an outdoor setting.

Students will be expected to actively participate in strenuous outdoor excursions throughout the course. Students will experience at least one overnight and one extended multi-day hiking or canoeing field trip.

If taken with PAD3O1, a selection process will be implemented if this 2 credit package is oversubscribed.

PREREQUISITE: CGC1P1 or CGC1D1 or SNC2D1 or SNC2P1

CREDIT: 1 TYPE: University/College GRADE: 11

SBI4U1 Biology

This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields.

PREREQUISITE: SBI3U1

CREDIT: 1 TYPE: University GRADE: 12

SCH4C1 Chemistry

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

PREREQUISITE: SNC2D1 or SNC2P1

CREDIT: 1 TYPE: College GRADE: 12

SCH4U1 Chemistry

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

PREREQUISITE: SCH3U1

CREDIT: 1 TYPE: University GRADE: 12

SES4U1 Earth and Space Science

This course develops students' understanding of Earth and its place in the universe. Students will investigate the properties of and forces in the universe and solar system and analyse techniques scientists use to generate knowledge about them. Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives. The course draws on biology, chemistry, physics, and mathematics in its consideration of geological and astronomical processes that can be observed directly or inferred from other evidence.

PREREQUISITE: SNC2D1

NOTE: This course is offered every other year and will be offered next in 2016-2017.

CREDIT: 1 TYPE: University GRADE: 12

SNC4E1 Science

This course provides students with fundamental science knowledge and workplace skills needed to prepare them for success beyond secondary school. Students will explore hazards in the workplace, chemicals in consumer products, disease and its prevention, electricity at home and at work, and nutritional science. Emphasis is placed on current topics in science and relevant, practical activities that develop students' literacy and mathematical literacy skills and enhance their scientific literacy. This course is available to grade 11 and grade 12 students with proper prerequisite.

CREDIT: 1 TYPE: Workplace GRADE: 12

PREREQUISITE: Grade 10 Science, Applied, or a Grade 10 locally developed compulsory credit (LDCC) course in science.

SPH4C1 Physics

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

PREREQUISITE: SNC2D1 or SNC2P1

CREDIT: 1 TYPE: College GRADE: 12

SPH4U1 Physics

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

PREREQUISITE: SPH3U1

CREDIT: 1 TYPE: University GRADE: 12

SOCIAL SCIENCES & HUMANITIES

HIF1O1 Individual and Family Living

This course explores the challenges faced by all people: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible members of society. Students will acquire knowledge and skills that are needed to make the transition to adulthood. Teachers will instruct students in developing interpersonal, decision-making, and practical skills related to daily life. Students will explore the functioning of families and the diversities found among families and within society.

CREDIT: 1 TYPE: Open GRADE: 9

HNL2O1 Clothing

This course introduces students to the world of clothing. Students will gain knowledge about clothing and will demonstrate basic skills associated with techniques and technologies used to create garments and accessories. Students will learn about the functions of clothing and accessories and what clothing communicates about the wearer. They will learn how to enhance their personal wardrobe by assessing garment quality and will develop shopping strategies and an understanding of various retail formats. Students will develop research skills as they investigate topics related to clothing.

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

HLS3O1 Living Spaces and Shelter

This course analyses how different types of living spaces and forms of shelter meet people's physical, social, emotional, and cultural needs and reflect society's values, established patterns of living, and economic and technological developments. Students will learn how to make practical decisions about where to live and how to create functional and pleasing environments, and will explore occupational opportunities related to housing and design. They will also learn skills used in researching and investigating living accommodations and housing.

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

HNC3C1 Understanding Fashion

This course introduces students to the world of fashion. Students will gain an understanding of theories related to Fashion trends and of how culture, media, fashion cycles, retailing, and social and environmental factors influence fashion trends and consumer behavior. Students will use various tools, technologies, and techniques safely and correctly to create fashion items. They will apply knowledge of fibres, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion.

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

HPC3O1 Parenting

This course focuses on the skills and knowledge needed to promote the positive and healthy nurturing of children, with particular emphasis on the critical importance of the early years to human development. Students will learn how to meet the developmental needs of young children, communicate and discipline effectively, and guide early behaviour. They will have practical experiences with infants, toddlers, and preschoolers, and will learn skills in researching and investigating questions relating to parenting.

COURSE NOTE: This course is recommended for senior students NOT Gr 10's.

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

HRT3M1 World Religions: Beliefs, Issues, and Religious Traditions

This course enables students to discover what others believe and how they live, and to appreciate their own unique heritage. Students will learn about the teachings and traditions of a variety of religions, the connections between religion and the development of civilizations, the place and function of religion in human experience, and the influence of a broad range of religions on contemporary society. This course also introduces students to skills used in researching and investigating world religions.

CREDIT: 1 **TYPE:** University/College **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.

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

HSP3U1 Introduction to Anthropology, Psychology, and 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 science, and to become familiar with current thinking on a range of issues within the three disciplines.

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

HZB3M1 Philosophy: The Big Questions

This course encourages exploration of philosophy's big questions, such as: What is a meaningful life? What separates right from wrong? What constitutes knowledge? What makes something beautiful? What is a just society? Students will develop critical thinking and philosophical reasoning skills as they identify and analyse the responses of philosophers to the big questions and formulate their own response to them. Students will explore the relevance of philosophical questions to society and to their everyday life. They will develop research and inquiry skills as they investigate various topics in philosophy.

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

HFL4E1 Food and Healthy Living

This course focuses on the fundamental food needs of young adults. Students will learn how to stock a kitchen, make nutritious food choices, and accommodate the food needs of others. Through a range of practical experiences, they will develop skills needed in food preparation for personal use, and for employment in the food industry. They will also learn about dining etiquette in different contexts and about responsible consumer practices. Students will use social science research methods to investigate issues related to food preparation and nutrition.

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

HHS4C1 Families in Canada

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

PREREQUISITE: CGF3M1 or CGW4U1 or CIA4U1 or CGU4C1 or CHW3M1 or CHY4U1 or CLU3M1 or CLN4U1 or ENG3U1 or ENG3C1 or ENG4U1 or ENG4C1 or EWC4U1 or HSP3UF or HZT4U1 or HRT3M1 or HSP3C1

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

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.

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

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

HZT4U1 Philosophy: Questions and Theories

This course addresses three (or more) of the main areas of philosophy: metaphysics, logic, epistemology, ethics, social and political philosophy, and aesthetics. Students will learn critical thinking skills, the main ideas expressed by philosophers from a variety of the world's traditions, how to develop and explain their own philosophical ideas, and how to apply those ideas to contemporary social issues and personal experiences. The course will also help students refine skills used in researching and investigating topics in philosophy.

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

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

TECHNOLOGICAL STUDIES PATHWAY

Specialist High Skills Major

The Specialist High Skills Major (SHSM), a new province-wide initiative, enables students to customize their high school experience to suit their interests and talents. The goal is to prepare for a successful post-secondary transition to apprenticeship training, college, university, or employment, while meeting the requirements of the OSSD. Through the SHSM program, students will gain specific credits, skills, and knowledge, and make informed career decisions. This makes the learning environment more engaging for students, focuses them on graduation, and prepares them to pursue their career goals. ENSS is currently offering SHSM's in the areas of Manufacturing, Construction, Hospitality & Tourism, Arts, and Environment.

Students interested in these career sectors will:

Select a bundle of 9-12 required courses identified in a Ministry approved framework including:

- (4) "Major" Credits in their specialist field**, which will provide sector specific knowledge and skills.
- Other required credits**, including English, Science, Business, and Mathematics, delivered in the context of each specific SHSM sector.
- Earn sector recognized certifications** such as First Aid, CPR, WHMIS.
- Engage in experiential learning** through co-operative education.

The Ontario Skills Passport

The Ontario Skills Passport (OSP), which is a key component of the SHSM, provides teachers and employers with a consistent method of assessing and recording the demonstration of skills and work habits in the workplace.

When do students start a SHSM?

Students are able to enter a SHSM based on readiness and alignment of the program with their interests and post-secondary goals. Entry should occur no later than Year 3 in order for the student to be appropriately scheduled into the required courses.

Pathways for our High Skills Major

Please click on the link for charts that describe courses and pathways for each of our SHSM programs.

Dual Credits

Dual Credit Programs are designed to assist secondary school students in the completion of their OSSD and successful transition to college and apprenticeship programs. The Dual Credit Program was developed through the Ministry of Education and School/College/Work Initiative (SCWI) to build and sustain better linkages between the college system and the secondary school system. Dual credit programs are an important part of the government's Student Success Strategy and Reaching Higher Plan for Post-secondary Education. Benefits to participating students include:

- Earning a college credit at no financial cost
- Potential to earn more than the standard number secondary school credits in one year
- Increasing awareness of college and apprenticeship options
- Opportunity to experience college first-hand
- Contributes to a smooth and more successful transition from secondary school to college

Dual Credits Are Currently Offered In Conjunction with the Following Courses:

- Communications Technology (TGJ4M/E) ** **The Art of Story Telling – COMM 1016**
- Construction Home Building (TCJ4C) ** **Building Construction Codes & Standards – BLDG 1001**
- Hospitality & Tourism (TFJ4C/E) ** **Baking Techniques – HOSP 1019**
- Manufacturing (TMJ4M/E) ** **Introduction to Machine Hand-tools – MANU 1000**

- Transportation Technology (TTJ4C/E) **** Basic Automotive Skills – ASTM 1001**
- See your Guidance Counsellor for more information.

Broad Based Technology

TIJ1O1 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 post-secondary education and training pathways leading to careers in technology-related fields. Project Examples: crash car, graphic design and video production, electronic poster, web page design. Projects may vary from year to year.

COURSE NOTE: SAFETY GLASSES REQUIRED.

CREDIT: 1 TYPE: Open GRADE: 9

TIJ1ON Exploring Technologies - Locally Developed

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 post-secondary education and training pathways leading to careers in technology-related fields.

COURSE NOTE: SAFETY GLASSES REQUIRED. Students will choose this course code if they have an individual education plan (IEP).

CREDIT: 1 TYPE: Open GRADE: 9

Communications Technology

TGJ2O1 Communications Technology

This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/video and movie production, radio and audio production, print and graphic communications, photography, and animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology and explore secondary and post-secondary education and training pathways and career opportunities in the various communications technology fields. Students are introduced to shooting and editing videos, green screening for music videos, Flash animation, digital photography, 35mm photography, and desktop publishing. Students will use Macintosh computers as they work with iMovie, iDVD, iPhoto, iTunes, and Garage Band.

CREDIT: 1 TYPE: Open GRADE: 10

TGJ3M1 Communications Technology

This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also develop an awareness of related environmental and societal issues and explore college and university programs and career opportunities in the various communications technology fields. Live studio TV production is introduced and skills will be developed in the areas of video production, editing, digital photography, 35mm photography, and animation. Students will use Macintosh computers as they work with iMovie, iDvd, iPhoto, iTunes, and Garage Band.

COURSE NOTE: Recommendation: TGJ2O1

CREDIT: 1 TYPE: University/College GRADE: 11

TGJ301 Communications Technology: Broadcast and Print Production

This course enables students to develop knowledge and skills in the areas of graphic communication, printing and publishing, audio and video production, and broadcast journalism. Students will work both independently and as part of a production team to design and produce media products in a project-driven environment. Practical projects may include the making of signs, yearbooks, video and/or audio productions, newscasts, and documentaries. Students will also develop an awareness of related environmental and societal issues and explore secondary and post-secondary education and training pathways and career opportunities in the various communications technology fields. Students will work as a team in a studio production environment and will gain skills in the areas of video production, digital photography, desktop publishing, 2D animation and web design. Macintosh technology is used when working with video, pictures, and sound.

COURSE NOTE: Recommendation: TGJ201

CREDIT: 1 TYPE: Open GRADE: 11

TGJ4M1 Communications Technology

This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. Students may work in the areas of TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology and will investigate career opportunities and challenges in a rapidly changing technological environment. Students will fine tune their skills in the areas of TV production, video production, video editing, 2D/3D animation, digital photography, and graphic design. There is an emphasis in the areas of news story production, video, editing, digital photography and 2D animation. Macintosh technology is used when working with video, pictures, and sound.

Course Note: Students taking this course will also have the opportunity to earn a college credit from Loyalist College, as we have integrated a dual-course (The Art of Story Telling) into the program as well.

PREREQUISITE: TGJ3M1

CREDIT: 1 TYPE: University/College GRADE: 12

TGJ4O1 Communications Technology: Digital Imagery and Web Design

This course enables students to develop knowledge and skills in the areas of photography, digital imaging, animation, 3D modelling, and web design. Students will work both independently and as part of a production team to design and produce media products in a project-driven environment. Practical projects may include photo galleries, digital images, animations, 3D models, and websites. Students will also expand their awareness of environmental and societal issues related to communications technology and explore post-secondary education, training, and career opportunities. Student projects involve video production, video editing, photography, web page design, and 2D animation. **Course Note:** Students taking this course will also have the opportunity to earn a college credit from Loyalist College, as we have integrated a dual-course (The Art of Story Telling) into the program as well.

COURSE NOTE: Recommendation: TGJ3C1 or ICS3C1.

CREDIT: 1 TYPE: Open GRADE: 12

Computer Engineering**TEJ2O1 Computer Technology**

This course introduces students to computer systems, networking, and interfacing, as well as electronics and robotics. Students will assemble, repair, and configure computers with various types of operating systems and application software. Students will build small electronic circuits and write computer programs to control simple peripheral devices or robots. Students will also develop an awareness of environmental and societal issues related to the use of computers, and learn about secondary and post-secondary pathways to careers in computer technology. Students can expect to gain the necessary knowledge to build, maintain, and repair their own computer.

CREDIT: 1 TYPE: Open GRADE: 10

TEJ3E1 Computer Technology

This course enables students to develop knowledge and skills related to computer hardware, networks, operating systems, and other software. Students will use utility and application software and learn proper procedures for

installing, maintaining, and troubleshooting computer systems and networks. Students will develop an awareness of environmental and societal issues related to the use of computers, and will learn about apprenticeships and other employment opportunities in the field of computer technology that they may choose to pursue after graduation.

COURSE NOTE: Recommendation: TEJ2O1

CREDIT: 1 TYPE: Workplace GRADE: 11

TEJ3M1 Computer Engineering Technology

This course examines computer systems and control of external devices. Students will assemble computers and small networks by installing and configuring appropriate hardware and software. Students will develop knowledge and skills in electronics, robotics, programming, and networks, and will build systems that use computer programs and interfaces to control and/or respond to external devices. Students will develop an awareness of environmental and societal issues related to the use of computers, and will learn about college and university programs leading to careers in computer engineering. Students will have the skills and capability of wiring, configuring, and maintaining a Local Area Network (LAN).

COURSE NOTE: Recommendation: TEJ2O1

CREDIT: 1 TYPE: University/College GRADE: 11

TEJ4E1 Computer Technology

This course enables students to further develop their practical understanding of computer hardware, software, networks, and operating systems. Students will use utility and application software, and will follow proper procedures for installing, maintaining, and troubleshooting computer systems and networks. In addition to demonstrating an understanding of the ethical use and environmental effects of computers, students will develop marketable skills and assess career opportunities in the field. Students will be prepared to successfully write and pass the A+ and Network + certifications.

PREREQUISITE: TEJ3E1 or ICS3C1

CREDIT: 1 TYPE: Workplace GRADE: 12

TEJ4M1 Computer Engineering Technology

This course extends students' understanding of computer systems and computer interfacing with external devices. Students will assemble computer systems by installing and configuring appropriate hardware and software, and will learn more about fundamental concepts of electronics, robotics, programming, and networks. Students will examine environmental and societal issues related to the use of computers, and explore post-secondary pathways leading to careers in computer engineering and related fields.

PREREQUISITE: TEJ3M1 or ICS3C1

CREDIT: 1 TYPE: University/College GRADE: 12

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 post-secondary opportunities in computer-related fields. Projects will include programming a game in 2D modeling, rendering, and 2D animation software used by leaders in game development, television and film.

COURSE NOTE: Recommendation: TEJ2O1

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.

Projects will include programming a game in 2D modeling, rendering, and 2D animation software used by leaders in game development, television and film.

COURSE NOTE: Recommendation: TEJ2O1

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

ICS4C1 Computer Programming

This course further develops students' computer programming skills. Students will learn object-oriented programming concepts, create object-oriented software solutions, and design graphical user interfaces. Student teams will plan and carry out a software development project using industry-standard programming tools and proper project management techniques. Students will also investigate ethical issues in computing and expand their understanding of environmental issues, emerging technologies, and computer-related careers. Projects will focus on creating programs using 3D modeling, rendering, and 3D animation software used by leaders in game development, television, film.

PREREQUISITE: ICS3C1

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

ICS4U1 Computer Science

This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyse algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field. Projects will focus on creating programs using 3D modeling, rendering, and 3D animation software used by leaders in game development, television, film.

PREREQUISITE: ICS3U1

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

Construction Technology

TCJ2O1 Construction Technology

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

COURSE NOTE: SAFETY GLASSES REQUIRED

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

TCJ3C1 Construction Engineering Technology

This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore career opportunities in the field. **COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TCJ2O1**

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

TCJ3E1 Construction Technology

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

field. **COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TCJ2O1**

CREDIT: 1 TYPE: Workplace GRADE: 11

TWJ3E1 Custom Woodworking

This course enables students to develop knowledge and skills related to cabinet making and furniture making. Students will gain practical experience using a variety of the materials, tools, equipment, and joinery techniques associated with custom woodworking. Students will learn to create and interpret technical drawings and will plan, design, and fabricate projects. They will also develop an awareness of environmental and societal issues related to the woodworking industry, and explore apprenticeships, post-secondary training, and career opportunities in the field that may be pursued directly after graduation.

COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TCJ2O1

CREDIT: 1 TYPE: Workplace GRADE: 11

TCJ4C1 Construction Engineering Technology

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

COURSE NOTE: SAFETY GLASSES REQUIRED.

PREREQUISITE: TCJ3C1

CREDIT: 1 TYPE: College GRADE: 1

TCJ4E1 Construction Technology

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

COURSE NOTE: SAFETY GLASSES REQUIRED.

PREREQUISITE: TCJ3E1

CREDIT: 1 TYPE: Workplace GRADE: 12

TWJ4E1 Custom Woodworking

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

COURSE NOTE: SAFETY GLASSES REQUIRED.

PREREQUISITE: TWJ3E1 or TCJ3E1 or TCJ3C1

CREDIT: 1 TYPE: Workplace GRADE: 11

Design Technology

TDJ2O1 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 learn about secondary and post-secondary education and training

leading to careers in the field. (Project examples include: Vehicle High Wire Challenge, Vinyl Lodge Development, Bridge Structure Challenge, Architectural Floor Plan Design.)

COURSE NOTE: SAFETY GLASSES REQUIRED.

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

TDJ3M1 Technological Design

This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them. (Project examples include: Solar Powered Racer, Off Road Vehicle Prototype Challenge, House Design Basics). Specialist High Skills Major students will have the opportunity to work on and design projects related to their area or emphasis.

COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TDJ2O1

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

TDJ3O1 Technological Design and the Environment

This course enables students to apply a systematic process for researching, designing, building, and assessing solutions to address specific human and environmental challenges. Through their work on various projects, students will explore broad themes that may include aspects of industrial design, mechanical design, architectural design, control system design, and/or apparel design. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and post-secondary pathways leading to careers in the field. (Project examples include: Solar Powered Racer, Off Road Vehicle Prototype Challenge, House Design Basics). Specialist High Skills Major students will have the opportunity to work on and design projects related to their area or emphasis.

COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TDJ2O1

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

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 explore career opportunities and the post-secondary education and training requirements for them. (Project examples include: Model Home Design Challenge and Alternative Energy Design Challenge.) Specialist High Skills Major students will have the opportunity to work on and design projects related to their area of specialization.

PREREQUISITE: TDJ3M1

COURSE NOTE: SAFETY GLASSES REQUIRED.

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

TDJ4O1 Technological Design in the Twenty-first Century

This course focuses on the relationship between society and technological development. Students will use appropriate tools, techniques, and strategies to research, design, build, and assess prototypes for products and/or processes that respond to society's changing needs. Students will describe how social factors, including culture, media, politics, religion, and environmental concerns, influence technological design. Students will also learn about professional practices in the field, and will research post-secondary pathways leading to careers related to technological design. (Project examples include: Model Home Design Challenge and Alternative Energy Design Challenge.) Specialist High Skills Major students will have the opportunity to work on and design projects related to their area of specialization.

COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TDJ3E1 or TDJ3O1

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

Health & Personal Services

TXJ2O1 Hairstyling and Aesthetics

This course presents hairstyling, make-up, and nail care techniques from a salon/spa perspective. Through a variety of school and community-based activities, students learn fundamental skills in hairstyling, giving manicures and facials and providing hair/scalp analyses, and treatments. Students also consider related environmental and societal issues and explore secondary and post-secondary pathways leading to careers in the field of hairstyling and aesthetics.

CREDIT: 1 TYPE: Open GRADE: 10

TPJ3C1 Health Care

This course focuses on the development of knowledge and skills that will benefit students planning a career in the health care field. Students will learn about human anatomy and physiology, homeostasis, vital signs, disease prevention and treatment, how lifestyle choices affect health and well-being, and conventional and complementary methods of disease prevention and treatment. Students will develop an awareness of health and safety issues, environmental and societal issues related to health care, and career opportunities in the field.

CREDIT: 1 TYPE: College GRADE: 11

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 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 consider environmental and societal issues related to the industry and acquire a more detailed knowledge of apprenticeships and direct-entry work positions. Students learn cutting techniques and develop an increased proficiency in styling techniques, manicures, pedicures, facials, and makeup application techniques learned in the Gr 10 program. **Recommendation: TXJ2O1**

CREDIT: 1 TYPE: Workplace GRADE: 11

TPJ4C1 Health Care

This course focuses on the development of clinical skills needed to assess general health status. Students will learn about accepted health care practices and about how to perform various basic procedures, using appropriate instruments and equipment. They will learn about the human immune system, pathology, and disease prevention and treatment. Students will also expand their awareness of workers' health and safety issues, environmental and societal issues related to health care, and post-secondary destinations in the field.

PREREQUISITE: TPJ3C1

CREDIT: 1 TYPE: College GRADE: 12

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 strengthen their fundamental cosmetology skills and develop an understanding of common business practices and strategies in the salon/spa industry. Students expand their understanding of environmental and societal issues and their knowledge of postsecondary destinations in the hairstyling and aesthetics industry. Students learn about and practice chemical processes in addition to advanced cutting techniques in this two credit course.

PREREQUISITE: TXJ3E1

CREDIT: 2 TYPE: Workplace GRADE: 12

Hospitality & Tourism

TFJ2O1 Hospitality and Tourism

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 post-secondary pathways leading to careers

in the tourism industry.

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

TFJ3C1 Hospitality and Tourism

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. (Students in the Hospitality and Tourism courses will learn to prepare stocks, soups, and sauces, as well as, meat, fish, seafood, poultry, and dessert dishes and will help run the Blue Dragon Café, as well as, cater special events.)

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

TFJ3E1 Hospitality and Tourism

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. (Students in the Hospitality and Tourism courses will learn to prepare stocks, soups, and sauces, as well as, meat, fish, seafood, poultry, and dessert dishes and will help run the Blue Dragon Café, as well as, cater special events.)

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

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. (Students in the Hospitality and Tourism courses will learn to prepare stocks, soups, and sauces, as well as, meat, fish, seafood, poultry, and dessert dishes and will help run the Blue Dragon Café, as well as, cater special events.)

PREREQUISITE: TFJ3C1

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

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. (Students in the Hospitality and Tourism courses will learn to prepare stocks, soups, and sauces, as well as, meat, fish, seafood, poultry, and dessert dishes and will help run the Blue Dragon Café, as well as, cater special events.)

PREREQUISITE: TFJ3E1

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

Manufacturing Technology

TMJ2O1 Manufacturing Technology

This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a

design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection moulding. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary and post-secondary pathways leading to careers in the industry.

COURSE NOTE: SAFETY GLASSES REQUIRED.

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

TMJ3E1 Manufacturing Technology

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

COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TMJ2O1

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

TMJ3M1 Manufacturing Engineering Technology

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

COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TMJ2O1

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

TMJ4E1 Manufacturing Technology

This project-driven, hands-on course builds on students' experiences in manufacturing technology. Students will further develop knowledge and skills related to the use of engine lathes, milling machines, welding machines, and other related tools and equipment as they design and fabricate solutions to a variety of technological challenges in manufacturing. Students may have opportunities to acquire industry-standard training and certification. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry.

COURSE NOTE: SAFETY GLASSES REQUIRED.

PREREQUISITE: TMJ3E1

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

TMJ4M1 Manufacturing Engineering Technology

This course enables students to further develop knowledge and skills related to design, process planning, control systems, project management, quality assurance, and business operations. Students will use a broad range of tools and equipment, enhance their skills in computer-aided design, and collaborate in managing a project. Students will critically analyse and solve complex problems involved in manufacturing products. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry.

COURSE NOTE: SAFETY GLASSES REQUIRED.

PREREQUISITE: TMJ3M1

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

Transportation Technology

TTJ2O1 Transportation Technology

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

leading to careers in the transportation industry.

COURSE NOTE: SAFETY GLASSES REQUIRED.

CREDIT: 1 TYPE: Open GRADE: 10

TTJ3C1 Transportation Technology

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

COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TTJ2O1

CREDIT: 1 TYPE: College GRADE: 11

TTJ3O1 Transportation Technology: Vehicle Ownership

This general interest course enables students to become familiar with the options and features of various vehicles, issues of registration, and the legal requirements affecting vehicle owners. Students will also learn about vehicle financing and insurance, vehicle maintenance, emergency procedures, and the responsibilities of being a vehicle owner. Students will develop an awareness of environmental and societal issues related to vehicle ownership and use, and will explore career opportunities in the transportation industry.

COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TTJ2O1

CREDIT: 1 TYPE: Open GRADE: 11

TTJ4C1 Transportation Technology

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

COURSE NOTE: SAFETY GLASSES REQUIRED.

PREREQUISITE: TTJ3C1

CREDIT: 1 TYPE: College GRADE: 12

TTJ4E1 Transportation Technology: Vehicle Maintenance

This course introduces students to the servicing, repair, and maintenance of vehicles through practical applications. The course is appropriate for all students as a general interest course to prepare them for future vehicle operation, care, and maintenance or for entry into an apprenticeship in the motive power trades. Students will develop an awareness of environmental and societal issues related to transportation and will learn about careers in the transportation industry and the skills and training required for them.

COURSE NOTE: SAFETY GLASSES REQUIRED. Recommendation: TTJ3E1 or TTJ3O1

CREDIT: 1 TYPE: Workplace GRADE: 12

Specialist High Skills Major Program

TCJ4C8 Construction Technology - Construction Home Builders Program

This 4 credit program is being offered to students who are planning on a career in the Construction Industry. Students who are pursuing a Specialist High Skills Major in Construction will be given priority when determining acceptance into the program. Students who are selected for this program will be involved and participate in all aspects of residential construction such as framing, drywalling, roofing and landscaping in the local community. Students will be responsible for providing their own hard hat, work boots, pouch, and hand tools. An interview with the instructor and/or interview panel will be required. Students will need to provide a resume, cover letter, and a reference letter for the interview.

COURSE NOTE: You MUST take this course with TCJ4CX and TSV4T1.

PREREQUISITE: TCJ3C1 or TCJ3E1

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

TCJ4CX Construction Technology - Construction Home Builders Program - Pathways Coop

This 4 credit program is being offered to students who are planning on a career in the Construction Industry. Students who are pursuing a Specialist High Skills Major in Construction will be given priority when determining acceptance into the program. Students who are selected for this program will be involved and participate in all aspects of residential construction such as framing, drywalling, roofing and landscaping in the local community. Students will be responsible for providing their own hard hat, work boots, pouch, and hand tools. An interview with the instructor and/or interview panel will be required. Students will need to provide a resume, cover letter, and a reference letter for the interview.

COURSE NOTE: You MUST take this course with TCJ4C8 and TSV4T1.

PREREQUISITE: TCJ3C1 or TCJ3E1

CREDIT: 2 Coop **TYPE:** College **GRADE:** 12

TSV4T1 Loyalist: Building Construction Codes and Standards 1 COURSE

NOTE: You MUST take this course with TCJ4C8 and TCJ4CX.

CREDIT: 1 towards OSSD and 1 to use at Loyalist College

TFJ4C8 & TFJ4C9 Hospitality and Tourism

This 2 credit course is being offered to any students wishing to experience a more in depth learning opportunity in the field of Hospitality & Tourism. Students will develop advanced food preparation and presentation skills; implement a variety of events or activities while investigating principles that contribute to high-quality customer service. Students taking this course also have the opportunity to earn a college credit from Loyalist College, as we have integrated a **dual-credit course (Baking Techniques)** into the program as well. This course will complete all reach ahead, experiential learning, and certification requirements needed by students wishing to complete their SHSM in Hospitality. **PLEASE SEE SHSM & DUAL-CREDIT DETAILS UNDER SPECIAL HIGH SKILLS MAJOR. COURSE NOTE: You MUST take BOTH of these courses.**

PREREQUISITE: TFJ3C1

CREDIT: 1 each course code **TYPE:** College **GRADE:** 12

TFJ4E8 & TFJ4E9 Hospitality and Tourism

This 2 credit course is being offered to any students wishing to experience a more in depth learning opportunity in the field of Hospitality & Tourism. Students will develop advanced food preparation and presentation skills; implement a variety of events or activities while investigating principles that contribute to high-quality customer service. Students taking this course also have the opportunity to earn a college credit from Loyalist College, as we have integrated a **dual-credit course (Baking Techniques)** into the program as well. This course will complete all reach ahead, experiential learning, and certification requirements needed by students wishing to complete their SHSM in Hospitality. **PLEASE SEE SHSM & DUAL-CREDIT DETAILS UNDER SPECIAL HIGH SKILLS MAJOR. COURSE NOTE: You MUST take BOTH of these courses.**

PREREQUISITE: TFJ3E1 or TFJ3C1

CREDIT: 1 each course code **TYPE:** Workplace **GRADE:** 12

TMJ4E8 & TMJ4E9 Manufacturing Technology

This 2 credit course is being offered to any students wishing to experience a more in depth learning opportunity in the field of Manufacturing. Students will use a broad range of tools and equipment, enhance their skills and knowledge in a variety of manufacturing processes, and collaborate in managing machine and fabrication projects. Students taking this course also have the opportunity to earn a college credit from Loyalist College, as we have integrated a **dual-credit course (Introduction to Machine Hand-Tools)** into the program as well. This course will complete all reach ahead, experiential learning, and certification requirements needed by students wishing to complete their SHSM in Manufacturing. **PLEASE SEE SHSM & DUAL-CREDIT DETAILS UNDER SPECIAL HIGH SKILLS MAJOR. COURSE NOTE: SAFETY GLASSES REQUIRED. You MUST take BOTH of these courses.**

PREREQUISITE: TMJ3E1

CREDIT: 1 each course code **TYPE:** Workplace **GRADE:** 12

TMJ4M8 & TMJ4M9 Manufacturing Technology

This **2 credit course** is being offered to any students wishing to experience a more in depth learning opportunity in the field of Manufacturing. Students will use a broad range of tools and equipment, enhance their skills and knowledge in a variety of manufacturing processes, and collaborate in managing machine and fabrication projects. Students taking this course also have the opportunity to earn a college credit from Loyalist College, as we have integrated a **dual-credit course (Introduction to Machine Hand-Tools)** into the program as well. This course will complete all reach ahead, experiential learning, and certification requirements needed by students wishing to complete their SHSM in Manufacturing. **PLEASE SEE SHSM & DUAL-CREDIT DETAILS UNDER SPECIAL HIGH SKILLS MAJOR. COURSE NOTE: SAFETY GLASSES REQUIRED. You MUST take BOTH of these courses.**

PREREQUISITE: TMJ3M1

CREDIT: 1 each course code

TYPE: University/College

GRADE: 12

TTJ4C8 & TTJ4C9 Transportation Technology

This **2 credit course** is being offered to any students wishing to experience a more in depth learning opportunity in the field of Transportation. Students will use a variety of tools and equipment as they study, test, service, and repair engine management systems: powertrains; steering/control, suspension, brake and body systems. Students taking this course also have the opportunity to earn a college credit from Loyalist College, as we have integrated a **dual-credit course (Basic Automotive Skills)** into the program as well. This course will complete all reach ahead, experiential learning, and certification requirements needed by students wishing to complete their SHSM in Transportation. **PLEASE SEE SHSM & DUAL-CREDIT DETAILS UNDER SPECIAL HIGH SKILLS MAJOR. COURSE NOTE: SAFETY GLASSES REQUIRED. You MUST take BOTH of these courses. COURSE NOTE: SAFETY GLASSES REQUIRED.**

You MUST take BOTH of these courses.

PREREQUISITE: TTJ3C1

CREDIT: 1 each course code

TYPE: College

GRADE: 12

TTJ4E8 & TTJ4E9 Transportation Technology

This **2 credit course** is being offered to any students wishing to experience a more in depth learning opportunity in the field of Transportation. Students will use a variety of tools and equipment as they study, test, service, and repair engine management systems: powertrains; steering/control, suspension, brake and body systems. Students taking this course also have the opportunity to earn a college credit from Loyalist College, as we have integrated a **dual-credit course (Basic Automotive Skills)** into the program as well. This course will complete all reach ahead, experiential learning, and certification requirements needed by students wishing to complete their SHSM in Transportation. **PLEASE SEE SHSM & DUAL-CREDIT DETAILS UNDER SPECIAL HIGH SKILLS MAJOR. COURSE NOTE: SAFETY GLASSES REQUIRED. You MUST take BOTH of these courses.**

CREDIT: 1 each course code

TYPE: Workplace

GRADE: 12

CO-OPERATIVE EDUCATION & OYAP

1. a career-oriented method of earning high school credits in local communities.
2. unique and highly specialized work experiences related to a variety of in-school subjects and programs.
3. individualized attention in school and at the workplace.
4. explores and prepares for career and educational options.
5. **Co-op course codes are changed later and linked with appropriate subject codes and levels.**

TRANSPORTATION: Morning Co-op students require their own transportation to their respective placements, and Afternoon Co-op students require their own transportation home from their placements at the end of the day.

COP4X1 Co-operative Education Single Credit

This single credit co-op course is used for students wishing to take a single credit co-op. Experiential Learning is a unique learning opportunity which integrates classroom learning with practical, hands-on, experience in the workplace. A student's Co-operative Education program is designed to suit the student's strengths, interests, and needs. Students should have career direction(s) chosen, as well as, possess above average attendance,

responsibility, and maturity.

CREDIT: 1 **TYPE:** Open

COP4XC Co-operative Education Single Credit (2nd Single Co-op Credit in Same Year)

This is the same course description as COP4X1.

COURSE NOTE: Choose this course code only if you are taking two cooperative education single credits.

CREDIT: 1 **TYPE:** Open

COP4XP Co-operative Education - Peer Helping

This single co-op course prepares students to provide leadership and assistance to younger students in a classroom setting. Students develop communication and leadership skills and deepen their insight into the learning process as they assist students in their assigned classes.

COURSE NOTE: Excellent attendance is required. Choose this course code only if you are taking Peer Helping.

CREDIT: 1 **TYPE:** Open

COP4X2 Co-operative Education - 2 Credits (1st Double Co-op Credit)

An individualized course which assists students bound for university, college, apprenticeships, or the workplace in making career decisions, as well as, in developing knowledge, skills, and attitudes essential in today's workplace.

CREDIT: 2 **TYPE:** Open

COP4XD Co-operative Education - 2 Credits (2nd Double Co-op Credit in Same Year)

This is the same description as COPX42.

COURSE NOTE: Choose this course code only if you are taking two cooperative education double credits.

CREDIT: 2 **TYPE:** Open

COP4X3 Co-operative Education - 3 Credits

An individualized course which assists students bound for university, college, apprenticeships or the workplace in making career decisions, as well as in developing knowledge, skills, and attitudes essential in today's workplace.

CREDIT: 3 **TYPE:** Open

COP4X4 Co-operative Education - 4 Credits – Full Day Co-op

An individualized course which assists students bound for university, college, apprenticeships or the workplace in making career decisions, as well as in developing knowledge, skills, and attitudes essential in today's workplace.

CREDIT: 4 **TYPE:** Open

COP4XY OYAP - Ontario Youth Apprenticeship Program

This program allows Ontario Secondary school students to fast track into the trade of their choice. Two types of OYAP Programs exist.

(1) Accelerate OYAP

- The first program consists of a unique combination of community college trades training. (see Tentative Accelerate Program chart), and a high school Cooperative Education program.
- Students are registered as apprentices and attend the college one to three days a week to earn their Basic Level 1 of their trade qualifications. The remainder of the week is spent at a work placement with a qualified employer earning, two or more high school credits.
- Accumulated hours are put towards their apprenticeship requirements. This full day program usually takes place during the second semester.
- Positions in this program are only available to students who are in their Grade 12 year and eligible to graduate. Candidates demonstrating success in the required Math, Science, English, and Technological Studies will be interviewed as program seats are limited.

- Successful candidates will require registration in a two credit Cooperative Education program and two dual credits during second semester. A related Cooperative Education placement, during grade 11, is highly recommended.
- The cost of College training is absorbed by the Ministry of Training, Colleges, and Universities. A transportation allowance will be available to subsidize the cost of attending the College Program.
- Note: OYAP Level 1 program students will receive Dual Credits along with their Coop credits. For further information about Dual Credits, speak to Student Services.

(2) Standard OYAP

- A second form of OYAP participation is also available to any Cooperative Education student, with a placement in an Apprenticeship Trade, who is at least 16 years of age and has 16 credits.
- These OYAP students will NOT complete their trade's Basic Level 1 course at a Community College. The student will have a Learning Plan developed which is based on the training standards for the trade.
- Students can be registered as apprentices and the competencies achieved through the Coop placement may be recognized toward their apprenticeship. The student will potentially earn between two and four secondary credits.
- An OYAP student in this program can participate in any of more than 150 recognized trades.

Contact your Guidance, Tech or Cooperative Education teacher for more information.

CREDIT: 2-4

TYPE: Open

GRADE: 12

STUDENTS NOT RETURNING TO ENSS & COURSE CODES FOR STUDENTS ONLY RETURNING FOR ONE SEMESTER

NRG Codes - Non Returning Students - Grade 12 Graduates or Non-Graduates 18 years of age

Please enter one of the codes listed below if you are not returning to ENSS next year.

NRG5A8 - Graduate going to Apprentice

NRG5C8 - Graduate going to College

NRG5E8 - Graduate going to Employment

NRG5O8 – Graduate – Destination to Be Determined

NRG5U8 - Graduate going to University

NRN5O8 - Non-graduate - not returning

ZSM4OU Grade 12 Student Returning Semester Two Only

Pick this code if you are returning for second semester only. You will not have classes during semester one.

ZSM4OV Grade 12 Student Returning Semester One Only

Pick this code if you are planning on returning for semester one only. You will not have classes second semester.

E-Learning – 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 E-Learning 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...

E-Learning allows you to select from nearly 90 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, however, 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. Please know, however, that during your E-Learning period you are expected to be working on your E-Learning course on one of the computers in your school that has been designated for E-Learning.

To see a list of courses available, please see your Guidance Counsellor or visit the Board website <http://www.kprschoools.ca/> (Click on **Students**, then click on **E-Learning**.)

For more information or to register for an E-Learning course, please make an appointment with your Guidance Counsellor.

Note: Students may also enroll in the E-Learning courses offered by the other 19 Boards that comprise the OeLC (Ontario E-Learning Consortium).

POSSIBLE PATHWAYS – These are general guidelines. Please see Student Services for more specific requirements.

UNIVERSITY

Humanities and Social Science:

Possible Careers: Teaching, Law, Political Analyst, Social Worker, Psychologist, Public Relations, Journalist, Criminologist, Sales, Foreign Affairs

Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D Math 2D History 2D Science 2D Civics/Career Studies A Group Compulsory 2 Electives	English 3U Math 3M or 3U Science or Technology Group Compulsory if needed Elective credits	English 4U 5or 6 additional 4U/4M courses Data Management or Advanced Functions or Calculus and Vectors recommended

Science:

Possible Careers: Teaching, Computer Systems Designer/Analyst, Researcher, Sales, Biologist, Chemist, Astronomer, Microbiologist, Environmental Consultant, Forester

Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D Math 2D History 2D Science 2D Civics/Career Studies A Group Compulsory 2 Electives	English 3U Math 3M or 3U Physics 3U * Chemistry 3U Biology 3U Group Compulsory if needed 2 Elective credits * Required for certain careers. Contact Student Services.	English 4U Advanced Functions Calculus and Vectors* Physics 4U* Chemistry 4U* Biology 4U* * Required for admission to some science programs but not others depending on area of emphasis

Engineering and Math:

Possible Careers: Actuarial Science, Statistician, Aerospace, Civil, Chemical, Mechanical, Industrial Engineering, Systems Design, Architecture

Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P	English 2D Math 2D History 2D Science 2D Civics/Career Studies	English 3U Math 3M or 3U Physics 3U Chemistry 3U Biology 3U*	English 4U Advanced Functions Calculus and Vectors Physics 4U Chemistry 4U

Physical Education Arts Elective	A Group Compulsory 2 Electives	Group Compulsory if needed 2 Elective credits * Only required if entering an engineering area related to biology or environmental science	Biology 4U* * Only required if entering an engineering area related to biology or environmental
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Health Science: Possible Careers: Physician, Nurse, Physical Therapy, Sports Injury Management, Dentist, Medical Research, Pharmacy, Medical Radiology			
Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D Math 2D History 2D Science 2D Civics/Career Studies A Group Compulsory 2 Electives	English 3U Math 3M or 3U Physics 3U * Chemistry 3U Biology 3U Group Compulsory if needed Physics is recommended but not required 2 Elective credits	English 4U Advanced Functions or Calculus and Vectors* Data Management Please check individual school calendars for specific information Chemistry 4U Biology 4U Physics 4U # * A 4U math is not required for all Nursing Programs # Required for some Health Science Programs
Business: Possible Careers: Accounting, Human Resources Management, Marketing, Information Technology, General Management, Financial Analyst, Financial Planner, Banking			
Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D Math 2D History 2D Science 2D Civics/Career Studies A Group Compulsory 2 Electives	English 3U Math 3M or 3U Group Compulsory if needed Accounting is recommended 4 Elective credits	English 4U Advanced Functions and/or Calculus and Vectors Data Management may be recommended depending on the university 3 or 4 additional 4U/4M Courses Accounting and International Business are recommended if offered

Fine Arts (Visual Art, Drama, Music, Dance):

Possible Careers: Actor, Set Designer, Stage Manager, Sound/Lighting, Teaching, Graphic Designer, Artist, Product Designer, Film Production and Direction, Cinematographer, Radio and Television Production and on-air personality, Broadcast Journalism, Professional Musician, Music Production, Composer, Dancer, Choreographer

Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D Math 2D Science 2D/2P History 2D/2P Civics/Career Studies # 1 Group Compulsory 2 Electives	English 3U Math 3M or 3U Group Compulsory if needed Arts area of interest 4 Elective credits	English 4U 5 or 6 additional 4U/4M courses one of which should be in your area of interest e.g. visual art, drama, music

<u>COLLEGE</u> Applied Arts and Community Studies: Possible Careers: Police Foundations, Recreation and Health Promotion, Customs Officer, Development Services Worker, Early Childhood Educator, Social Services Worker, Development Services Worker, Child and Youth Worker, Addictions Counsellor, Education Assistance, Print Journalism, Radio and Television Broadcaster			
Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D/1P Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D/2P Math 2D/2P Science 2D/2P History 2D/2P Civics/Career Studies # 1 Group Compulsory 2 Electives	English 3Uor 3C Math 3M or 3U or 3C Group Compulsory if needed Arts area of interest 4 Elective credits	English 4U or 4C 5or 6 additional senior courses Some grade 11 courses may also be recommended. Please check individual college publications for specific information
Fine Arts: Possible Careers: Animator, Theatre Lighting and Sound Technician, Graphic Designer, Fashion Designer, Advertising, Digital Media Technician, Photographer			
Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D/1P Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D/2P Math 2D/2P Science 2D/2P History 2D/2P Civics/Career Studies # 1 Group Compulsory 2 Electives	English 3Uor 3C Math 3M or 3U or 3C Group Compulsory if needed Arts area of interest 4 Elective credits	English 4U or 4C 5 or 6 additional senior courses one of which should be in your area of interest e.g. visual art, drama, music Some grade 11 courses may also be recommended. Please check individual college publications for specific information
Business: Possible Careers: Business Manager, Hotel and Restaurant Manager, Accountant, Information Technologist, Human Resource Manager, Marketing Manager, Professional Sales, Travel and Tourism			
Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D/1P Science 1D/1P Geography 1D/1P French 1D/1P	English 2D/2 P Math 2D/2P Science 2D/2P History 2D/2P Civics/Career Studies	English 3Uor 3C Math 3M or 3U or 3C Group Compulsory if needed Recommended:	English 4U or 4C Math 4Uor 4C 4 or 5 additional senior courses

Physical Education Arts Elective	# 1 Group Compulsory 2 Electives	Accounting and Entrepreneurial Studies 2 Elective credits	Some grade 11 courses may also be recommended. Please check individual college publications for specific information
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Technology: Possible Careers: Architectural Technologist, Civil Technologist, Construction Technologist, Computer Engineering Technologist, Mechanical Engineering Technologist, Chemical Engineering Technologist, Environment Engineering Technologist, Forester, Fish and Wildlife Technologist, Automotive Technologist, Aircraft Maintenance Technician			
Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D/2P Math 2D/2P Science 2D/2P History 2D/2P Civics/Career Studies # 1 Group Compulsory 2 Electives	English 3U or 3C Math 3M or 3U or 3C Group Compulsory if needed 3C/3E courses in area of interest in Technology 4 Elective credits Some programs in the environmental and natural resources fields may also require SBI3C1	English 4U or 4C Math 4U or 4C Physics 4U or 4C Chemistry 4U or 4C 3 or 4 additional 4U/4M/4C 4C/4E courses in area of interest in Technology MCT4C1 may be recommended for some college technology programs
Health Science: Possible Careers: Registered Practical Nurse, Personal Support Worker, Dental Assistance, Dental Hygienist, Pharmacy Assistance, Physical Therapy Assistance, Radiology Technologist, Medical Lab Technologist, Veterinary Assistant, Paramedic			
Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D/2P Math 2D/2P History 2D/2P Science 2D/2P Civics/Career Studies A Group Compulsory 2 Electives	English 3u or 3C Math 3M, 3U or 3C Biology 3U or 3C Group Compulsory if needed Health Care is recommended but not required 3 Elective credits	English 4U or 4C Math 4U or 4C Chemistry 4U or 4C Physics recommended but not required depending on program 4C or 4U

APPRENTICESHIP**Construction Sector:**

Possible Careers: Brick and Stone Mason, Drywall, Acoustic and Lathing Applicator, General Carpenter, Ironworker, Plumber, Refrigeration and Air Conditioning Mechanic, Roofer, Steam Fitter, Terrazzo, Tile and Marble Setter

Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D/1P Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D/2P Math 2D/2P History 2D/2P Science 2D/2P Civics/Career Studies A Group Compulsory 2 Electives	English 3E or 3C Math 3E or 3C Group Compulsory if needed Technology course(s) of interest Co-operative Ed Elective	English 4E or 4C Math 4E or 4C Physics 4C recommended Technology course(s) of interest OYAP Elective Credit * some apprenticeships require Math 4C

Industrial Sector:

Possible Careers: Facilities Maintenance Mechanic, General Machinist, Industrial Electrician, Industrial Mechanic Millwright, Mould Maker, Pattern Maker, Tool and Die Maker, Welder Fitter

Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D/2P Math 2D/2P History 2D/2P Science 2D/2P Civics/Career Studies A Group Compulsory 2 Electives	English 3E or 3C Math 3E or 3C Group Compulsory if needed Technology course(s) of interest Co-op Credits Elective	English 4E or 4C Math 4E or 4C Physics 4C recommended Technology course(s) of interest OYAP

Motive Power Sector: Possible Careers: Auto Body Repair, Automotive Painter, Automotive Service Technician, Heavy Duty Equipment Mechanic, Marine Engine Mechanic, Motorcycle Mechanic, Small Engine Technician, Transmission Technician			
Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D/2P Math 2D/2P History 2D/2P Science 2D/2P Civics/Career Studies A Group Compulsory 2 Electives	English 3E or 3C Math 3E or 3C Group Compulsory if needed Technology course(s) of interest Co-operative Ed Electives	English 4E or 4C Math 4E or 4C Physics 4C Technology course(s) of interest OYAP
Service Sector: Possible Careers: Arborist, Assistant Cook, Baker, Cook, Hairstylist, Horticulture Technician, Retail Meat Cutter			
Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D/2P Math 2D/2P History 2D/2P Science 2D/2P Civics/Career Studies A Group Compulsory Social Science - Foods Elective	English 3E or 3C Math 3E or 3C Group Compulsory if needed Technology course(s) of interest Co-operative Ed Environmental Science Biology 3C Elective	English 4E or 4C Math 4E or 4C Technology course(s) of interest OYAP
Agriculture Sector: Possible Careers: Dairy, Herds person, Fruit Grower, Horse Groom, Horse Harness Maker, Swine Herds person			
Grade 9	Grade 10	Grade 11	Grade 12
English 1D/1P Math 1D Science 1D/1P Geography 1D/1P French 1D/1P Physical Education Arts Elective	English 2D/2P Math 2D/2P History 2D/2P Science 2D/2P Civics/Career Studies A Group Compulsory social Science - Foods Elective	English 3E or 3C Math 3E or 3C Group Compulsory if needed Technology course(s) of interest Co-operative Ed Environmental Science Biology 3C Elective	English 4E or 4C Math 4E or 4C Technology course(s) of interest OYAP

Hospitality and Tourism:

Possible Careers: Valet, Bell Hop, Caterer, Concierge, Bartender, Dishwasher, Food Server, Banquet Server, Short Order Cook, Cafeteria Worker, Hospital Orderly, Hospital Cook, Dietary Assistance, Grocer

Grade 9	Grade 10	Grade 11	Grade 12
English 1P/1L Math 1P/1L Science 1P/1L Geography 1P/1L French 1P Physical Education Arts Elective	English 2P/2L Math 2P/2L History 2P/2L Science 2P/2L Civics/Career Studies A Group Compulsory 2 Electives	English 3E Math 3E Science 3E Group Compulsory if needed Electives	English 4E Math 4E Co-op Credits

Personal Services:

Possible Careers: Entrepreneur, Small Business Owner, Barber, Hairstylist, Bridal Consultant

Grade 9	Grade 10	Grade 11	Grade 12
English 1P/1L Math 1P/1L Science 1P/1L Geography 1P/1L French 1P Physical Education Arts Elective	English 2P/2L Math 2P/2L History 2P/2L Science 2P/2L Civics/Career Studies A Group Compulsory 2 Electives	English 3E Math 3E Science 3E1 Group Compulsory if needed Electives	English 4E Math 4E

Horticulture:

Possible Careers: Golf Course Maintenance, Nursery/Greenhouse Grower, Fruit and Vegetable Picker, Conservation Area Guard, Lawn Care Technician, Golf Range Attendant, Cemetery Worker, Landscape Worker, Arborist Helper, Tree Harvester, Parks Worker, Tree Trimmer, Crop Sprayer, Gardener, Farmer

Grade 9	Grade 10	Grade 11	Grade 12
English 1P/1L Math 1P/1L Science 1P/1L Geography 1P/1L French 1P Physical Education Arts Elective	English 2P/2L Math 2P/2L History 2P/2L Science 2P/2L Civics/Career Studies A Group Compulsory 2 Electives	English 3E Math 3E Science 3E Group Compulsory if needed Electives	English 4E Math 4E Co-op Credits

WHAT IS HAPPENING AT ENSS????

Fall Sports:

Jr & Sr Girls Basketball
Cross Country
Golf
Jr & Sr Girls Rugby
Jr & Sr Boys Volleyball
Jr & Sr Boys Soccer

Winter Sports:

Jr & Sr Boys Basketball
Curling
Boys Hockey
Girls Hockey
Jr & Sr Girls Volleyball
Wrestling

Spring Sports:

Badminton
Jr & Sr Boys Rugby
Jr & Sr Girls Soccer
Track & Field

YEAR ROUND CLUBS & ORGANIZATIONS

Amigos
Art Club
Astronomy Club
Blue Dragon Caterers
Breakfast Club
Chair Committee
Chess Club
Community Challenge
Concert Band
Dance Club
Dragon FX
Drama Club
Student Drill Team
White Pines Reading Group

Environmental Club
Jazz Eh!
Library Council
Leo's
Oasis
Ontario Educational Leadership Council
Razzmajazz
Robotics
Science Alliance
Student Government
Terry Fox Campaign
Threads
Video Club
Video and Games Drop In
Yearbook

TRADITION EXCELLENCE HEART



KAWARTHA PINE RIDGE
DISTRICT SCHOOL BOARD

LEADERS IN LEARNING