

DREAM IT! BUILD IT! LIVE IT!

**2011-2012
COURSE
CALENDAR**



Wellington Catholic
District School Board

We Have Faith in Education
www.wellingtoncdsb.ca

CATHOLIC HIGH SCHOOLS

**BISHOP MACDONELL
OUR LADY OF LOURDES
ST. JAMES**

IT IS THE PHILOSOPHY OF WELLINGTON CATHOLIC DISTRICT SCHOOL BOARD...

THAT ALL STUDENTS RECEIVE AN EDUCATION SUITED TO THEIR NEEDS AND ABILITIES IN THEIR COMMUNITY SCHOOL AND IN THE REGULAR CLASSROOM FOR AS MUCH OF THE INSTRUCTIONAL DAY AS POSSIBLE.

COURSE MODIFICATIONS AND ACCOMMODATIONS ARE NOTED ON THE STUDENT'S INDIVIDUAL EDUCATION PLAN (IEP). THIS PLAN IS A COLLABORATIVE PROCESS THAT IS ONGOING BETWEEN THE SCHOOL, STUDENT AND PARENT. NON-IDENTIFIED EXCEPTIONAL STUDENTS ON AN IEP ARE GIVEN EVERY OPPORTUNITY TO ACHIEVE THE CURRICULUM EXPECTATIONS OF THEIR COURSES OF STUDY.



GOALS AND OBJECTIVES

GOALS:

- To educate all students in a Catholic Christian setting which models Christ.
- To prepare our students to be contributing members of society, both now and in the future.
- To show our love for God by our love for each other.

OBJECTIVES:

- To pursue academic excellence.
- To provide students with varied work related experiences.
- To promote the dignity of all pathways by providing varied educational programs which suit the individual needs and aspirations of all students.
- To offer meaningful religion courses and an active liturgical program.
- To promote an awareness and involvement in the community.
- To foster a positive sense of self for students and staff.
- To provide a varied co-curricular program that stresses participation and personal fitness.
- To develop a sense of pride in Canada's heritage and an awareness of human rights.

SUCCESS IN HIGH SCHOOL:

The Wellington Catholic School Board believes that all students can succeed. Our goal is to ensure that students graduate from high school so that they may move on to the pathway destination of their choice. Pathways can lead to a destination of choice: Apprenticeship, College, University or Work.

EVERY STUDENT LEARNS DIFFERENTLY.

There are six ways current students can participate in innovative programs that help take students beyond the traditional classroom. These include Student Success Teams, Specialist High Skills Majors, Lighthouse Projects, Expanded Co-op Projects, Dual Credit Programs, and an expanded focus on the Grade 8 to 9 transition. Further information can be found at www.ontario.ca/6ways. Careful selection of course levels in Grade 9 that will provide challenges without a risk of failure is the first key in their years at high school beginning and ending with **SUCCESS**.

GUIDANCE SERVICES

Students will receive an **AGENDA PLANNER** in September which gives a complete overview of School Expectations, Major School Events, Clubs and Activities, as well as the Code of Conduct. This planner will also help students with their organization and time management.

Student Records: Ontario Student Record (OSR) and Transcript (OST):

An Ontario Student Record is maintained for each student. It contains copies of student report cards from each grade and other important information. This OSR folder is retained for 55 years after a student graduates or retires. The Ontario Student Transcript provides full disclosure of students' credit history. Print outs are available as needed.

Full Disclosure: As of September 1999, student transcripts will show all course attempts and their results for Grade 11 and 12 courses. For a course that is repeated, the course with the lower mark will have "R" entered in the

credit column. Courses that have a "failed" mark will be entered on the Ontario Student Transcript. Senior courses that students "withdraw" from five days or more following the receipt of their first progress report will have "W" recorded in the credit column. The estimated mark at the time of withdrawal will be recorded.

The Guidance Department provides students with assistance in exploring their academic goals, post-secondary information, career and employment planning, and personal counselling.

EXCEPTIONAL STUDENTS AND STUDENTS WITH SPECIAL NEEDS

SPECIALIZED PATHWAYS

Students benefitting from differentiated programs can work towards achieving their OSSD (30 credits), Ontario Secondary School Certificate (14 credits) or a Certificate of Accomplishment (fewer than 14 credits).

Locally developed courses have been developed in English, Science, History and Mathematics in order to assist with success during their initial years at high school.

Learning Strategies (GLE 101/102) also builds a foundation for further learning by increasing students' confidence, motivation, and ability to learn. A student that successfully completes the locally developed courses may be recommended by the school to attempt the Grade 9 Core courses (English, Math and Science) at the applied level to further prepare them for senior curriculum. Senior Workplace courses and co-op experiences enhance their overall development, maturity and preparation for independence in the community.

NON-CREDIT COURSES

Students whose IEP indicates that they work on individualized expectations rather than specific curriculum expectations will have their program based on annual goals noted on the IEP. A number of courses may be K coded (e.g. KMM 101 – Numeracy and Numbers).

SPECIAL EDUCATION ADVISORY COMMITTEE (SEAC)

The Wellington County Catholic District School Board's Special Education Advisory Committee (SEAC) is a committee created under the Education Act to make recommendations to the board about matters affecting the establishment and development of special education programs and services for exceptional pupils in the board. The SEAC is made up of parents, trustees, and community representatives who meet regularly to discuss information and policies about the education of exceptional children.

ELL RESOURCE SUPPORT SERVICES PROGRAM

The Wellington Catholic English Language Learner (ELL) program is a Resource Support Services Program.

ELL students will be fully integrated into an age-appropriate, regular classroom at their home school.

ELL students will be offered direct support as required from the classroom teacher as well as from District ELL Resource Teacher(s). Resource teacher support begins with an Initial Assessment to build individual student profile highlighting student strengths and needs.

ELL students are supported through ongoing assessment, monitoring and tracking to provide explicit teaching and learning in the regular classroom setting. Immigration Services and/or the County of Wellington settlement workers provide assistance to newcomers in the areas of translation, employment, housing and advocacy as required.

SCHOOL TO CAREERS

WWW.SCHOOLTOCAREERS.CA

The School to Career Office provides all students with a series of unique opportunities to learn about the world of work, explore potential careers, and gain valuable work experience. These planned learning experiences assist all students, whether bound for college, apprenticeship, university or the workplace, in making informed career decisions, and in developing the knowledge, skills and attitudes that are essential in today's society.

CO-OPERATIVE EDUCATION

Co-operative Education courses allow senior students to refine, extend, apply and practice classroom learning in supervised placements in the community. Co-op students must be 16 years of age and have completed 16 credits. Students can earn 2 credits for each Co-op course linked to a specific, in-school subject.

CO-OPERATIVE EDUCATION OPPORTUNITIES IN WELLINGTON CATHOLIC

CAREER STUDIES CO-OP (GLC 20C)

Through co-op work experience, students will develop employability skills and experience to achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics to prepare for managing work and life transitions, and help students focus on their post-secondary goals.

GUIDANCE: DESIGNING YOUR FUTURE (OPEN – GWL 301/30C)

Through co-op work experience students will explore the realities and opportunities of the workplace and examine factors that affect success, while refining their job search and employability skills. Students will expand their

portfolios with the focus on their targeted destination, and develop an action plan for future success. In Wellington Catholic, specific subject areas are encompassed under the umbrella of GWL Co-op.

GUIDANCE: NAVIGATING THE WORKPLACE (OPEN – GLN 401/40C)

Through co-op work experience, students will develop workplace essential skills and work habits required for success in all types of workplaces. Students will explore the realities and opportunities of the workplace and make plans for continued learning and a smooth transition to their posts-secondary destination.

SOCIAL SCIENCES AND HUMANITIES: MANAGING PERSONAL RESOURCES (WORKPLACE PREPARATION – HIP 3EC)

Job Entry Co-op focuses on the development of knowledge and competencies for a placement in business/industry. Job Entry Co-op best serves students with unique learning needs who require the development of specific employability skills. Student placements will be determined according to student interest.

SOCIAL SCIENCES AND HUMANITIES: PARENTING (OPEN – HPC 30C)

PREREQUISITE: STUDENTS MUST BE ENROLLED IN OR HAVE COMPLETED THE HPC 301 COURSE.

This is a career oriented program in which students can gain practical experience in the workplace. This Co-op course will give students a greater understanding of child development, in preparation for responsible parenting, and for careers in Early Childhood Education, Teaching or Social Work. Community placements will reflect these areas.

TECHNOLOGY CO-OP

Prerequisite: Related Technology courses should be completed before a student takes the co-op course, although in some instances, the student may be permitted to take co-op concurrently with the related course.

All technology courses provide the opportunity to enroll in a two-credit co-op course. The co-op builds on the knowledge and skills acquired in the related prerequisite classroom course. Students in apprenticeship-related placements, may be eligible to register as an Ontario Youth Apprentice.

ONTARIO YOUTH APPRENTICESHIP PROGRAM

Ontario Youth Apprenticeship Program (OYAP) is a specialized Co-op program for those students interested in Apprenticeship Training. This program allows senior students to complete Co-op credits towards their Ontario Secondary School Diploma and earn hours towards an apprenticeship in one of the designated trade sectors. Students will work under the supervision of a qualified journey person. In some cases, wages may be earned. At that time, the Workplace Safety and Insurance Board coverage will become the responsibility of the employer. Students who have demonstrated exceptional competency in the trade-related subject, have an acceptable attendance record and a serious attitude and commitment to their apprenticeship goal are referred by their trade-related subject teacher. If accepted, the student will complete a co-op course and become registered as an apprentice. The curriculum for a registered apprentice must complement skills in the Training Standard for the chosen trade.

A student's acceptance into the OYAP program does not guarantee that a student will become "registered" as an apprentice. Visit www.oyap.info for more information.

DUAL CREDIT PROGRAMS

The Dual Credit program provides an opportunity for senior students to attend college to take courses in selected career areas in the College or Apprenticeship Pathway. These certificate, diploma or level one apprenticeship programs count on both the secondary school and college transcript. They provide new and varied learning opportunities by exposing students to the college setting, culture and expectations. Wellington CDSB is partnered with Conestoga College through the School College Work Initiative, a consortium that covers all costs for students to participate.

Dual Credit programs are packaged with two credits in co-operative education and are taught in semester two, where the co-op placement hours are scheduled around the dual credit instruction hours.

Registration is through an application process. Speak to your Guidance Department.

COLLEGE PATHWAY PROGRAM:

Personal Support Worker

- Professional Practice A
- Professional Practice B

Early Childhood Education

- Child Development – The Early Years
- Introduction to ECE

Community Leadership

- Fitness and Lifestyle Management or Get Fit 1
- Introduction to Helping

APPRENTICESHIP PATHWAY

PRE-APPRENTICESHIP PROGRAMS:

- Mathematics for the Construction Trades: Introduction to HVAC or Electrical Wiring and Safety
- OR
- Mathematics for the Mechanical Trades: Welding and Motive Power Safety

LEVEL 1 APPRENTICESHIP PROGRAMS:

- Automotive Service Technician
- Cook
- General Machinist – (common core for metal machining trades)
- Truck and Coach Technician (common core for Heavy Equipment, Agricultural Equipment and Powered Lift Truck Technician)

EXPECTATIONS OF THE ONTARIO CATHOLIC SCHOOL GRADUATE

Woven through ALL aspects of Curriculum and School Life.

Distinctive expectations for graduates of Catholic schools are determined and shaped by the vision of destiny of the human person emerging from our faith tradition. This Christian anthropology or world view, reveals the dignity and value of the person.

Catholic education views human life as an integration of body, mind, and spirit. Rooted in this vision, Catholic education fosters the search for knowledge as a lifelong spiritual and academic quest. The expectations of Catholic graduates, therefore, are described not only in terms of knowledge and skills, but in terms of values, attitudes, and actions.

The Catholic graduate is expected to be:

- a discerning believer
- an effective communicator
- a reflective, creative and holistic thinker
- a self-directed, responsible life-long learner
- a collaborative contributor
- a caring family member
- a responsible citizen



WHAT DO YOU NEED TO GRADUATE?

Ontario Secondary School Diploma (OSSD)

Students must earn a minimum of 30 credits, including 22 compulsory and 8 optional credits:

22 Compulsory Credits

- 4 credits in English
- 3 credits in Mathematics
- 2 credits in Science
- 1 credit in Canadian History
- 1 credit in Canadian Geography
- 1 credit in the Arts
- 1 credit in Health and Physical Education
- 1 credit in French as a Second Language
- 0.5 credit in Career Studies
- 0.5 credit in Civics
- 4 credits in Religious Education

Plus 1 credit from each of the following groups:

Group 1: 1 additional credit in English, or French as a Second Language, or a native language, or a classical or an international language, or social sciences and the humanities, or Canadian and world studies, or guidance and career education, or cooperative education*.

Group 2: 1 additional credit in health and physical education, or the arts, or business studies, or cooperative education*.

Group 3: 1 additional credit in science, or technological education, or computer studies or cooperative education*.

*A maximum of 2 credits in cooperative education can count as compulsory credits.

Forty hours of community involvement activities and success on the provincial literacy test are also required.

Ontario Secondary School Certificate (OSSC)

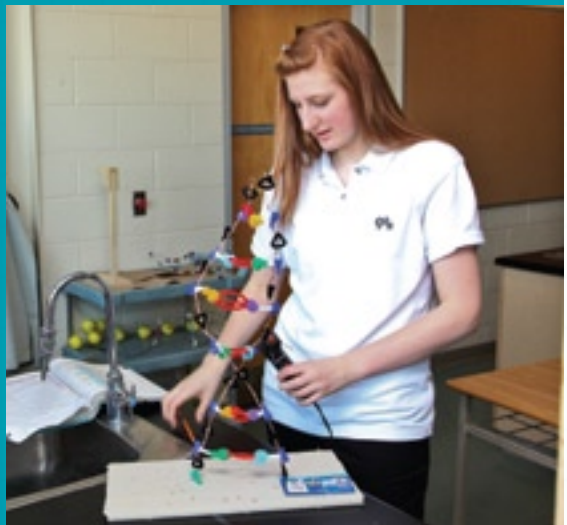
The OSSC will be granted upon request to students who leave school before earning the OSSD, provided they have earned a minimum of 14 credits distributed as follows: seven (7) compulsory credits including: 2 English, 1 Canadian Geography or Canadian History, 1 Math, 1 Science, 1 Health & Physical Education, 1 Arts or Technology and seven (7) optional credits.

The Certificate of Accomplishment

This certificate may be granted to students who leave school before fulfilling the requirements for the OSSD or the OSSC. The Certificate of Accomplishment will accompany the student's Ontario Student Transcript.

Compulsory Course Substitutions

Up to three substitutions may be made by the principal for compulsory courses when required. For students under age 18, parental consent is required.



COURSE INFORMATION

Courses are available in many subject areas in high school. Within a subject area, students can further specialize their study, depending on their personal interests.

TYPES OF COURSES

Grade 9 and 10 courses are selected based on one's knowledge and skill base, interests and possible educational program they wish to pursue. These include:

Academic (D) emphasizes theory and abstract thinking.

Applied (P) emphasizes real life situations and practical applications.

Locally Developed (L) focuses on knowledge and skills needed to be well prepared for success in senior courses. These courses support the development of strategies needed to develop numeracy and literacy skills.

Open (O) broadens one's knowledge and skills in areas that interest them and prepares them for active participation in society. These courses have no prerequisite.

Grades 11 and 12 courses focus on pathways related to general interests.

Workplace Preparation (E) Courses are designed to equip students for direct entry into the workplace or for admission to apprenticeships or other training programs. Teaching and learning will emphasize workplace applications of the course content and allow students to prepare for a variety of jobs, training programs and careers.

College Preparation (C) Courses are designed to equip students with the knowledge and skills they may need to meet the entrance requirements for most community college programs.

University/College Preparation (M) Courses tend to include content that is relevant for both college and university programs in related areas. Teaching and learning will emphasize both theoretical and related concrete applications of the course content.

University Preparation (U) Courses are designed to equip students with the knowledge and skills needed to meet entrance requirements for particular university programs. All courses will be based on rigorous curriculum expectations and will emphasize the development of independent skills in both research and curriculum expectations.

Post secondary preparations are an ongoing process. Keeping one's strengths and interests in mind, there are a variety of options to research. Important web sites to assist a student include:

myblueprint.ca
ontariocolleges.ca

electronicinfo.ca
oyap.info

TRANSFER COURSES

A transfer course is a partial credit course available in some subjects at summer school for students who wish to move from one type of course to another between Grade 10 and 11 or between Grade 11 and 12. Transfer courses cover expectations required for entry into a course in the next grade. For example, a transfer course would be required for a student to move from Applied Grade 10 English to Grade 11 University English. These courses are offered at summer school and have a credit value of 0.5.

CREDITS

A credit is granted when a course of 110 hours is completed successfully. Half credit courses require 55 hours to be completed. At present, there are two half-credit compulsory courses in Grade 10. Transfer credits are given a value of 0.5.

PREREQUISITES

Some courses require that students have completed a prerequisite course in order to enroll. These prerequisite requirements are given along with the course descriptions. Students should study the requirements carefully for senior level courses when selecting their programs in earlier grades.

COURSE CODES

MPM 1D1

The first three letters in your Course Code stand for:

Discipline: [Mathematics](#)

Subject/Course: [Principles of Mathematics](#)

MPM 1D1

The second three digits in your Course Code stand for:

Grade Level: 1 = [Grade 9](#)

Course Type: D = [Academic](#)

Number: 1 = [School Use](#)

COURSE OFFERINGS

There are many courses offered by the Wellington Catholic High Schools but some may be unique to a particular high school. See the Course Option Form provided by your home school for specific course offerings available to you.



THE ARTS

The arts help students develop desirable skills that improve their overall achievement, even in unrelated subject areas. When a student studies the arts, the power of personal creativity finds expression.

DANCE

GRADE 10 DANCE (OPEN – ATC 201)

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 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.

GRADE 11 DANCE (UNIVERSITY/COLLEGE – ATC 3M1)

PREREQUISITE: ATC 201

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

GRADE 12 DANCE (UNIVERSITY/COLLEGE – ATC 4M1)

PREREQUISITE: ATC 3M1

This course emphasizes the development of students' technical proficiency, fluency in the language of movement in global dance genres, and understanding of the dance sciences. Students will explore the social, cultural and historical context 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.

DRAMA

GRADE 9 DRAMA (OPEN – ADA 101)

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 analyze drama, and then reflect on the experiences to develop an understanding of themselves, the art form, and the world around them.

GRADE 10 DRAMA (OPEN – ADA 201)

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.

GRADE 11 DRAMA (UNIVERSITY/COLLEGE – ADA 3M1)

PREREQUISITE: ADA 201 OR ADA 101

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

GRADE 12 DRAMA (UNIVERSITY/COLLEGE – ADA 4M1)

PREREQUISITE: ADA 3M1

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

GRADE 12 DIRECTOR'S CRAFT (ADF 4M1)

PREREQUISITE: ADA 4M1 OR ADA 3M1

This course requires students to experiment with forms and conventions in dramatic literature, to create, script, and present original and adapted works. Students will be taught theories of acting.

Students will do research on directors and directorial styles from different historical periods. They will apply their knowledge in interpreting dramatic literature, including modern Canadian works. The ADF 4M1 Directing course provides the opportunity to utilize directing skills and techniques in mounting a play, realism vs. surrealism, playwriting, scene study, the rehearsal process, practice blocking, stage positions, focus and control of attention and the aspects of technical theatre.

MEDIA ARTS

GRADE 11 MEDIA ARTS (OPEN – ASM 301)

This course enables students to create media art works using available and emerging technologies such as computer animation, digital imaging, and video, and a variety of media. Students will explore the elements and principles of media arts, the connections between contemporary media art works and traditional art forms, and the importance of using responsible practices when engaged in the creative process. Students will develop the skills necessary to create and interpret media art works.

GRADE 11 MEDIA ARTS (UNIVERSITY/COLLEGE – ASM 3M1)

PREREQUISITE: ANY GRADE 9 OR 10 ARTS COURSE.

This course focuses on the development of media arts skills through the production of art works involving traditional and emerging technologies, tools and techniques such as new media, computer animation and web environments. Students will explore the evolution of media arts as an extension of traditional art forms, use the creative process to produce effective media art works, and critically analyze the unique characteristics of this art form. Students will examine the role of media artists in shaping audience perceptions of identity culture, and community values.

GRADE 12 MEDIA ARTS (WORKPLACE – ASM 4E1)

PREREQUISITE: ASM 301 OR ASM 3M1

This course focuses on a practical approach to a variety of media arts challenges related to the interests of the student and provides students with opportunities to examine media arts in relation to the world of work. Students will develop works that express their views on contemporary issues and will create portfolios suitable for use in post-secondary work experiences. Students will critically analyse the role of media artists in shaping audience perceptions of identity, culture, and community values, particularly within the context of the workplace.

GRADE 12 MEDIA ARTS (UNIVERSITY/COLLEGE – ASM 4M1)

PREREQUISITE: ASM 3M1

This course emphasizes the refinement of media arts skills through the creation of a thematic body of work by applying traditional and emerging technologies, tools, and techniques such as multimedia, computer animation, installation art and performance art. Students will develop work that expresses their views on contemporary issues and will create portfolios suitable for use in either career or post-secondary education applications. Students will critically analyze the role of media artists in shaping perceptions of identity, culture, and community values.

MUSIC

TECHNOLOGY

GRADE 11 ELECTRONIC MUSIC (UNIVERSITY/COLLEGE – AMD 3M1)

PREREQUISITE: AMU 101 OR AMU 201

This course is designed for students who wish to study the techniques required to create music using electronic studio equipment. The course emphasizes the exploration of sound and its electronic manipulation.

GRADE 12 ELECTRONIC MUSIC (UNIVERSITY/COLLEGE – AMD 4M1)

PREREQUISITE: AMU 3M1 OR AMD 3M1

This course is designed for students who wish to study the techniques required to create music using electronic studio equipment. The course emphasizes the exploration of sound and its electronic manipulation.

GUITAR

GRADE 10 GUITAR (OPEN – AMG 201)

Learn the basics of guitar technique while you learn to read music, listen to it more critically, and learn to write in traditional music notation and guitar tablature. 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 an understanding of music, including the elements, terminology and history. Many styles of chord and picking will be studied with basic classical technique.

GRADE 11 MUSIC (UNIVERSITY/COLLEGE – AMG 3M1)

PREREQUISITE: AMG 201

This course continues focus on learning guitar techniques while improving on reading traditional music notation and guitar tablature. It emphasizes performance at an intermediate and advanced level exploring different performance styles and techniques. Students will be required to continue to develop their understanding of music theory as it relates to their performance practice while understanding music history and analysis from a critical perspective.

GRADE 12 MUSIC (UNIVERSITY/COLLEGE – AMG 4M1)

PREREQUISITE: AMG 3M1

This course continues focus on improving on a variety of guitar techniques acquired in AMG 3M1 while emphasizing ensemble and solo performances at an advanced level. Students will continue to explore relevant music history and advanced theory while applying concepts to arranging and composition that are appropriate for this level. There will also be a focus on critical analysis, reflection on social and cultural influences and the effects of traditional, commercial and art music.

INSTRUMENTAL

GRADE 9 MUSIC (OPEN – AMU 101)

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 lives.

GRADE 10 MUSIC (OPEN – AMU 201)

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

GRADE 11 MUSIC (UNIVERSITY/COLLEGE – AMU 3M1)

PREREQUISITE: ANY GRADE 9 OR 10 MUSIC COURSE

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

GRADE 12 MUSIC (UNIVERSITY/COLLEGE – AMU 4M1)

PREREQUISITE: AMU 3M1

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 analyze how to apply skills developed in music to their lives and careers.

VOCAL

GRADE 9 VOCAL MUSIC (OPEN – AMV 101)

This course emphasizes the performance of music with the voice 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.

GRADE 10 VOCAL MUSIC (OPEN – AMV 201)

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.

GRADE 11 VOCAL MUSIC (UNIVERSITY/COLLEGE – AMV 3M1)

PREREQUISITE: AMV 101 OR AMV 201

The course develops students' artistic knowledge and skills through the performance of music and the preparation of music productions. Students will perform appropriate works, particularly works in contemporary popular styles. They will also plan, market and produce musical productions, making use of appropriate technology and will evaluate the results. The focus of this course is to train singers.

GRADE 12 VOCAL MUSIC (UNIVERSITY/COLLEGE – AMV 4M1)

PREREQUISITE: AMV 301 OR AMV 3M1

This course emphasizes the appreciation, analysis and performance of music from the romantic period and the 20th century, including art music, jazz, popular music and Canadian and non-Western music. Students will concentrate on developing interpretive skills. The focus of this course is to refine skills and to develop solo techniques.

VISUAL ARTS

GRADE 9 VISUAL ARTS (OPEN – AVI 101)

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.

GRADE 10 VISUAL ARTS (OPEN – AVI 201)

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.

GRADE 11 VISUAL ARTS (UNIVERSITY/COLLEGE – AVI 3M1)

PREREQUISITE: AVI 101 OR AVI 201

This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may

include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using emergent technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular art form (e.g. photography, video, computer graphics, information design).

GRADE 12 VISUAL ARTS (UNIVERSITY/COLLEGE – AVI 4M1)

PREREQUISITE: AVI 3M1

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

BUSINESS STUDIES

GRADE 9 INFORMATION AND COMMUNICATION TECHNOLOGY IN BUSINESS (OPEN – BTT 101)

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 web site 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.

GRADE 10 INTRODUCTION TO BUSINESS (OPEN – BBI 201)

This course introduces students to the world of business. Students will develop an understanding of the functions of business, including accounting, marketing, information 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.

GRADE 11 FINANCIAL ACCOUNTING FUNDAMENTALS (UNIVERSITY/COLLEGE – BAF 3M1)

This course introduces students to the fundamental principals 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 merchandising business, computerized accounting, financial analysis, and current issues and ethics in accounting.

GRADE 11 ENTREPRENEURSHIP: THE VENTURE (COLLEGE PREPARATION – BDI 3C1)

This course focuses on the 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 student-run school-based or summer business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.

GRADE 12 FINANCIAL ACCOUNTING PRINCIPLES (UNIVERSITY/COLLEGE – BAT 4M1)

PREREQUISITE: BAF 3M1

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 main business decisions. This course further develops accounting methods for assets and introduces accounting for partnerships, corporations and sources of financing. Students who successfully complete BAT 4M1, as well as an optional test, qualify to receive an advanced standing credit in Introductory Financial Accounting at Conestoga College.

GRADE 12 BUSINESS LEADERSHIP: MANAGEMENT FUNDAMENTALS (UNIVERSITY/COLLEGE – BOH 4M1)

This course focuses on the development of leadership skills used in managing a successful business. Students will analyze the role of a leader in business with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics and social responsibility will be emphasized throughout the course.

CANADIAN AND WORLD STUDIES

GEOGRAPHY

GRADE 9 GEOGRAPHY OF CANADA (ACADEMIC – CGC 1D1)

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 geo-technologies and inquiry and communication methods to analyze and evaluate geographic issues and present their findings.

GRADE 9 GEOGRAPHY OF CANADA (APPLIED – CGC 1P1)

This course focuses on geographic issues that affect Canadians today. Students will draw on personal and everyday experiences to 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 geo-technologies and inquiry and communication methods to examine practical geographic questions and communicate their findings.

GRADE 11 PHYSICAL GEOGRAPHY: PATTERNS, PROCESSES AND INTERACTIONS (UNIVERSITY/COLLEGE – CGF 3M1)

PREREQUISITE: CGC 1D1 OR CGC 1P1

This course examines the major patterns of physical geography and the powerful forces that affect them. Students will investigate the dynamic nature of the earth, the evolving relationship between the planet and its people, and the factors that limit our ability to predict the changes that will occur. Students will use a wide range of geo-technologies and inquiry methods to investigate the distribution and interaction of the elements of their physical environment and to communicate their findings.

GRADE 11 TRAVEL AND TOURISM: A REGIONAL GEOGRAPHIC PERSPECTIVE (OPEN – CGG 3O1)

PREREQUISITE: CGC 1D1 OR CGC 1P1

This course focuses on travel and tourism as a vehicle for the study of selected world regions. Using a variety of geo-technologies 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.

GRADE 11 GEOGRAPHICS: A GEOGRAPHER'S TOOLKIT (WORKPLACE PREPARATION – CGT 3E1)

This course examines the use of geo-technologies, cartography, remote sensing, surveying, and geographic information systems (GIS) in the workplace, with emphasis on applications relevant to business, government, and the local community. Students will acquire practical experience in the collection, manipulation, interpretation, and display of geographic information, with a view to developing skills in the areas such as desktop mapping, graphic presentation, image interpretation, database management, and GIS analysis.

GRADE 12 CANADIAN AND WORLD ISSUES: A GEOGRAPHIC ANALYSIS (UNIVERSITY PREPARATION – CGW 4U1)

PREREQUISITE: ANY UNIVERSITY OR UNIVERSITY/COLLEGE PREPARATION COURSE IN CANADIAN AND WORLD STUDIES, ENGLISH, OR SOCIAL SCIENCES AND HUMANITIES.

This course examines the global challenges of creating a sustainable and equitable future, focusing on current issues that illustrate these challenges. Students will investigate a range of topics, including cultural, economic, and geopolitical relationships, regional disparities in the ability to meet basic human needs, and protection of the natural environment. Students will use geo-technologies and skills of geographic inquiry and analysis to develop and communicate balanced opinions about the complex issues facing Canada and a world that is interdependent and constantly changing.

GRADE 12 THE ENVIRONMENT AND RESOURCE MANAGEMENT (UNIVERSITY/COLLEGE – CGR 4M1)

PREREQUISITE: ANY UNIVERSITY, UNIVERSITY/COLLEGE OR COLLEGE PREPARATION COURSE IN CANADIAN AND WORLD STUDIES, ENGLISH, OR SOCIAL SCIENCES AND HUMANITIES.

This course investigates the complexity and fragility of ecosystems and the pressures human activities place on them. Students will examine ecological processes, the principles of sustainability, and strategies for resource management, with a focus on the challenges of environmental degradation and resource depletion. Students will use geo-technologies and skills of

geographic inquiry to explain and evaluate various approaches to achieving a more sustainable relationship between people and their environment. There is extensive use of Guelph Lake, hence a course fee will apply.

HISTORY

GRADE 10 CANADIAN HISTORY SINCE WORLD WAR 1 (ACADEMIC – CHC 2D1)

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.

GRADE 10 CANADIAN HISTORY SINCE WORLD WAR 1 (APPLIED – CHC 2P1)

This course explores some of the 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.

GRADE 10 CANADIAN HISTORY SINCE WORLD WAR 1 (LOCALLY DEVELOPED – CHC 2L1)

This course focuses on the connection between the student and key people, events and themes in Canadian History from World War I to the present. Students explore a variety of topics highlighting individuals and events that have contributed to the story of Canada. The major themes of Canadian identity, internal and external relationships and changes since 1914, are explored through guided investigation. Students practice reading, writing, visual and oral literacy skills, and mathematical skills to identify and communicate ideas in a variety of forms.

GRADE 10 CIVICS (OPEN – CHV 2O1)

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. **This course has a 0.5 credit value.**

GRADE 11 AMERICAN HISTORY (UNIVERSITY PREPARATION – CHA 3U1)

PREREQUISITE: CHC 2P1 OR CHC 2D1

This course traces the social, economic, and political development of the United States from colonial times to the present. Students will examine issues of diversity, identity, and culture that have influenced the country's social and political formation and will consider the implications of its expansion into a global superpower. Students will use critical-thinking and communication skills to determine causal relationships, evaluate multiple perspectives, and present their own points of view.

GRADE 11 WORLD HISTORY TO THE SIXTEENTH CENTURY (UNIVERSITY/COLLEGE – CHW 3M1)

PREREQUISITE: CHC 2P1 OR CHC 2D1

This course investigates the history of humanity from earliest times to the sixteenth century. Students will analyze 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. Students will use methods of historical inquiry in group and individual activities to research a variety of topics.

GRADE 12 WORLD HISTORY: THE WEST AND THE WORLD (UNIVERSITY PREPARATION – CHY 4U1)

PREREQUISITE: ANY UNIVERSITY OR UNIVERSITY/COLLEGE PREPARATION COURSE IN CANADIAN AND WORLD STUDIES, ENGLISH, OR SOCIAL SCIENCES AND HUMANITIES.

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.

GRADE 12 CANADA: HISTORY, IDENTITY AND CULTURE (UNIVERSITY PREPARATION – CHI 4U1)

PREREQUISITE: ANY UNIVERSITY OR UNIVERSITY/COLLEGE PREPARATION

COURSE IN CANADIAN AND WORLD STUDIES, ENGLISH, OR SOCIAL SCIENCES AND HUMANITIES.

This course explores the challenges associated with the formation of a Canadian national identity. Students will examine the social, political, and economic forces that have shaped Canada from the pre-contact period to the present and will investigate the historical roots of contemporary issues from a variety of perspectives. Students will use critical-thinking and communication skills to consider events and ideas in historical context, debate issues of culture and identity, and present their own views.

GRADE 12 WORLD HISTORY: THE WEST AND THE WORLD (COLLEGE PREPARATION – CHY 4C1)

PREREQUISITE: ANY UNIVERSITY, UNIVERSITY/COLLEGE OR COLLEGE PREPARATION COURSE IN CANADIAN AND WORLD STUDIES, ENGLISH, OR SOCIAL SCIENCES AND HUMANITIES.

This course explores the history of the world since the sixteenth century, emphasizing the interaction between the emerging west and other regions of the world. Students will learn about a variety of economic, social and political systems and the changes they have undergone over time. Students will apply their developing skills of historical inquiry to understand and communicate ideas about the forces that have formed our modern world.

GRADE 12 ADVENTURES IN WORLD HISTORY (WORKPLACE PREPARATION – CHM 4E1)

PREREQUISITE: CHC 2P1 OR CHC 2D1

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.

ECONOMICS, LAW AND POLITICS

GRADE 11 UNDERSTANDING CANADIAN LAW (UNIVERSITY/COLLEGE – CLU 3M1)

PREREQUISITE: CHC 2P1 OR CHC 2D1

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 in a variety of ways and settings, including case analysis, legal research projects, mock trials, and debates.

GRADE 11 UNDERSTANDING CANADIAN LAW (WORKPLACE PREPARATION – CLU 3E1)

PREREQUISITE: CHC 2P1 OR CHC 2D1

This course gives students practical information about legal issues that directly affect their lives. Students will examine the need for laws in society, the roots of Canada's legal system, the rights and freedoms that people in Canada enjoy, and the basic elements of criminal law and dispute resolution. Through experiences such as mock trials, debates, and case studies, students will apply inquiry and communication skills to develop and express opinions on legal topics of interest to them.

GRADE 12 CANADIAN AND INTERNATIONAL LAW (UNIVERSITY PREPARATION – CLN 4U1)

PREREQUISITE: ANY UNIVERSITY OR UNIVERSITY/COLLEGE PREPARATION COURSE IN CANADIAN AND WORLD STUDIES, ENGLISH, OR SOCIAL SCIENCES AND HUMANITIES.

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 analyze legal issues, conduct independent research, and present the results of their inquiries in a variety of ways.

GRADE 12 ANALYZING CURRENT ECONOMIC ISSUES (UNIVERSITY PREPARATION – CIA 4U1)

PREREQUISITE: ANY UNIVERSITY OR UNIVERSITY/COLLEGE PREPARATION COURSE IN CANADIAN AND WORLD STUDIES, ENGLISH, OR SOCIAL SCIENCES AND HUMANITIES.

This course explores the choices that individuals and societies make about the use of resources in a competitive global economy. Students will use economic concepts and models, as well as methods of economic inquiry, to analyze current economic issues and make informed economic choices based on their analysis.

CLASSICAL AND INTERNATIONAL LANGUAGES

SPANISH

GRADE 10 SPANISH (ACADEMIC – LWS BD1)

This course allows students with little or no prior experience with the Spanish language to develop an appreciation for Spanish culture and values through language. Students develop the three strands: Oral Communication, Reading and Writing. Students build and apply their knowledge of Spanish while exploring a variety of themes, such as relationships, trends, careers, and a global overview of the Spanish-speaking people and world. Thematic readings include a selection of readers, adapted short stories, articles, magazines, texts on CD-ROMs, and the Internet as stepping-stones to oral and written activities.

GRADE 11 SPANISH (UNIVERSITY – LWS CU1)

PREREQUISITE: LWS BD1

This course offers students' opportunities to further develop their knowledge of Spanish and to enhance their communication skills. Students will use increasingly sophisticated language in a variety of activities that will enable them to speak and write with clarity and accuracy. Students will also enhance their thinking skills through the critical study of literature, and continue to explore aspects of the culture of countries where the language is spoken through a variety of print and technological resources.

GRADE 12 SPANISH (UNIVERSITY – LWS DU1)

PREREQUISITE: LWS CU1

This course prepares students for university studies in Spanish. Students will enhance their ability to use the language with clarity and precision and will develop the language skills needed to engage in sustained conversations and discussions, understand and evaluate information, read diverse materials for both study and pleasure and write clearly and effectively. Students will also have opportunities to add to their knowledge of the culture of countries where the language is spoken through the use of community resources and computer technology.

COMPUTER STUDIES

GRADE 11 INTRODUCTION TO COMPUTER SCIENCE (UNIVERSITY PREPARATION – ICS 3U1)

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.

GRADE 11 INTRODUCTION TO COMPUTER PROGRAMMING (COLLEGE PREPARATION – ICS 3C1)

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.

GRADE 12 COMPUTER SCIENCE (UNIVERSITY PREPARATION – ICS 4U1)

PREREQUISITE: ICS 3U1

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 analyze 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.

GRADE 12 COMPUTER PROGRAMMING (COLLEGE PREPARATION – ICS 4C1)

PREREQUISITE: ICS 3C1

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 computer-related careers.

ENGLISH

GRADE 9 ENGLISH (ACADEMIC – ENG 1D1)

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

GRADE 9 ENGLISH (APPLIED – ENG 1P1)

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.

GRADE 9 ENGLISH (LOCALLY DEVELOPED – ENG 1L1)

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, and in the English Grade 11 Workplace Preparation course. The course is organized by strands that develop listening and speaking skills, reading and viewing skills, and writing skills. In all strands, the focus is on developing foundational literacy skills and in using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in speaking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

GRADE 10 ENGLISH (ACADEMIC – ENG 2D1)

PREREQUISITE: ENG 1D1 OR ENG 1P1

This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in

their daily lives. Students will analyze literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 University or College Preparation course.

GRADE 10 ENGLISH (APPLIED – ENG 2P1)

PREREQUISITE: ENG 1D1 OR ENG 1P1

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.

GRADE 10 ENGLISH (LOCALLY DEVELOPED – ENG 2L1)

PREREQUISITE: A GRADE 9 ENGLISH CREDIT.

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

GRADE 11 ENGLISH (UNIVERSITY PREPARATION – ENG 3U1)

PREREQUISITE: ENG 2D1

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

GRADE 11 ENGLISH (COLLEGE PREPARATION – ENG 3C1)

PREREQUISITE: ENG 2D1 OR ENG 2P1

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.

GRADE 11 ENGLISH (WORKPLACE PREPARATION – ENG 3E1)

PREREQUISITE: ENG 2D1 OR ENG 2P1 OR ENG 2L1

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.

GRADE 11 MEDIA STUDIES (OPEN – EMS 301)

PREREQUISITE: ENG 2D1 OR ENG 2P1

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

GRADE 12 ENGLISH (UNIVERSITY PREPARATION – ENG 4U1)

PREREQUISITE: ENG 3U1

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

language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace.

GRADE 12 ENGLISH: THE WRITER'S CRAFT (UNIVERSITY PREPARATION – EWC 4U1)

PREREQUISITE: ENG 3U1

This course emphasizes knowledge and skills related to the craft of writing. Students will analyze 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.

GRADE 12 ENGLISH (COLLEGE PREPARATION – ENG 4C1)

PREREQUISITE: ENG 3C1

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

GRADE 12 ENGLISH (WORKPLACE PREPARATION – ENG 4E1)

PREREQUISITE: ENG 3E1

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

GRADE 12 ENGLISH: COMMUNICATION IN THE WORLD OF BUSINESS (OPEN – EBT 401)

PREREQUISITE: ENG 3U1 OR ENG 3C1 OR ENG 3E1

This course emphasizes practical writing and communication skills that are needed in the world of business and technology. Students will analyze

the characteristics of effective models of business, and technical communications, gather information to write reports, business letters, memos, manuals, instructions and brochures, and integrate graphics and text using technology appropriately for formatting and special effects. They will also make a number of oral and visual presentations.

GRADE 12 ENGLISH: ONTARIO SECONDARY SCHOOL LITERACY COURSE (OPEN – OLC 401)

This course has been developed to provide students who have been unsuccessful on the OSSLT with intensive support in achieving the required reading and writing competencies and with an alternative means of demonstrating their literacy skills. Students who successfully complete this course will have met the provincial literacy requirement for graduation and will earn one credit.

FRENCH AS A SECOND LANGUAGE

GRADE 9 CORE FRENCH (ACADEMIC – FSF 1D1)

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.

GRADE 9 CORE FRENCH (APPLIED – FSF 1P1)

This course emphasizes the further development of oral communication skills, using the theme of media, the development of oral communication skills will be integrated with the development of reading, and writing skills. Students will expand their ability to understand and speak French through conversations, discussions and presentations. Students will also read media-related short stories, articles, poems, and songs and write brief descriptions, letters, dialogues, and invitations.

GRADE 10 CORE FRENCH (ACADEMIC – FSF 2D1)

PREREQUISITE: FSF 1D1

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 their writing.

GRADE 11 CORE FRENCH (UNIVERSITY PREPARATION – FSF 3U1)

PREREQUISITE: FSF 2D1

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 reading 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.

GRADE 12 CORE FRENCH (UNIVERSITY PREPARATION – FSF 4U1)

PREREQUISITE: FSF 3U1

This course draws on a variety of themes to promote extensive development of French language skills. Students will consolidate their oral skill 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.

GUIDANCE AND CAREER EDUCATION

GRADE 9 LEARNING STRATEGIES, SKILLS FOR SUCCESS IN SECONDARY SCHOOL (OPEN – GLS 101)

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.

GRADE 9 LEARNING STRATEGIES, SKILLS FOR SUCCESS IN SECONDARY SCHOOL (OPEN – GLE 101, GLE 102)

PREREQUISITE: RECOMMENDATION OF PRINCIPAL

See GLS 101 above for course information.

GRADE 10 CAREER STUDIES (OPEN – GLC 201)

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. **This course has a 0.5 credit value.**

GRADE 12 INTERDISCIPLINARY STUDIES (UNIVERSITY – IDC 4U1)

PREREQUISITE: ANY UNIVERSITY OR UNIVERSITY/COLLEGE PREPARATION COURSE

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

HEALTH AND PHYSICAL EDUCATION

These courses emphasize regular participation in a variety of enjoyable activities that promote lifelong healthy active living.

GRADE 9 HEALTHY ACTIVE LIVING EDUCATION (OPEN - PPL 10F/PPL 10M)

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. They will also participate in activities designed to develop goal setting, communication, and social skills. This course emphasizes students' daily participation in a variety of enjoyable physical activities that promote life-long, healthy active living, and encourages respect for the dignity and welfare of self and others and promotes a living of Gospel values. A fee may apply.

GRADE 10 HEALTHY ACTIVE LIVING EDUCATION (OPEN - PPL 20F/PPL 20M)

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. A fee may apply.

GRADE 11 HEALTHY ACTIVE LIVING EDUCATION (OPEN - PPL 30F/ PPL 30M)

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. A fee may apply.

GRADE 11 HEALTHY ACTIVE LIVING: INDIVIDUAL TRAINING (OPEN - PAF 301)

Students will be encouraged to develop personal fitness plans and be given opportunities to practice goal setting and decision making through a focus

on resistance and weight training, flexibility training, aerobic training, plyometrics training, and stability ball training. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety. A fee may apply.

GRADE 11 HEALTH FOR LIFE (OPEN - PPZ 30F/PPZ 30M)

This course helps students develop a personalized approach to healthy living. Through health themes on consumer issues, the environment, and community involvement, students will examine factors that affect their own health and the health of individuals as members of the community. They learn and practice initiatives that promote healthy eating, an active lifestyle and positive self-image. Students will develop a concerned awareness around creating environments that support healthy choices. A fee may apply.

GRADE 12 EXERCISE SCIENCE (UNIVERSITY PREPARATION - PSE 4U1)

PREREQUISITE: ANY GRADE 11 UNIVERSITY OR UNIVERSITY/COLLEGE PREPARATION COURSE IN SCIENCE, OR ANY GRADE 11 OR 12 OPEN COURSE IN HEALTH AND PHYSICAL EDUCATION.

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. A fee may apply.

GRADE 12 RECREATION AND FITNESS LEADERSHIP (COLLEGE PREPARATION - PLF 4C1)

PREREQUISITE: ANY GRADE 11 OR 12 OPEN COURSE IN HEALTH AND PHYSICAL EDUCATION.

This course focuses on the development of leadership and coordination skills related to recreational activities. Early in the semester students will be expected to participate in a backcountry camping trip to help with the development of a leadership team. Students will acquire the knowledge and skills required to plan, organize, and implement recreational events. They will also learn how to promote the value of physical fitness, personal well being, and personal safety to others through mentoring. The course will prepare students for college programs in recreational, leisure, and fitness leadership. A fee may apply.

GRADE 12 HEALTHY ACTIVE LIVING EDUCATION (OPEN - PPL 401)

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. A fee may apply.

MATHEMATICS

Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

GRADE 9 PRINCIPLES OF MATHEMATICS (ACADEMIC - MPM 1D1)

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.

GRADE 9 FOUNDATIONS OF MATHEMATICS (APPLIED - MFM 1P1)

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.

GRADE 9 MATHEMATICS (LOCALLY DEVELOPED - MAT 1L1)

This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in the Grade 10 LDCC course, and in the Mathematics Grade 11 and Grade 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.

GRADE 10 PRINCIPLES OF MATHEMATICS (ACADEMIC – MPM 2D1)

PREREQUISITE: MPM 1D1

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.

GRADE 10 FOUNDATIONS OF MATHEMATICS (APPLIED – MFM 2P1)

PREREQUISITE: MPM 1D1 OR MFM 1P1

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.

GRADE 10 MATHEMATICS (LOCALLY DEVELOPED – MAT 2L1)

PREREQUISITE: A GRADE 9 MATHEMATICS CREDIT

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in the Grade 11 and Grade 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.

GRADE 11 FUNCTIONS (UNIVERSITY PREPARATION – MCR 3U1)

PREREQUISITE: MPM 2D1

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous

functions, including trigonometric and exponential functions, represent functions numerically, algebraically, and graphically, solve problems involving applications of functions, and develop facility in simplifying polynomial and rational expressions.

GRADE 11 FUNCTIONS AND APPLICATIONS (UNIVERSITY/COLLEGE – MCF 3M1)

PREREQUISITE: MPM 2D1 OR MFM 2P1

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 financial and trigonometric applications.

GRADE 11 FOUNDATIONS FOR COLLEGE MATHEMATICS (COLLEGE PREPARATION – MBF 3C1)

PREREQUISITE: MFM 2P1

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, and develop their ability to reason by collecting, analysing, and evaluating data involving one and two variables.

GRADE 11 MATHEMATICS FOR WORK AND EVERYDAY LIFE (WORKPLACE PREPARATION – MEL 3E1)

PREREQUISITE: MPM 1D1 OR MFM 1P1 OR MAT 2L1 OR MFM 2P1

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.

GRADE 12 CALCULUS AND VECTORS (UNIVERSITY PREPARATION – MCV 4U1)

PREREQUISITE: MHF 4U1 OR CONCURRENTLY

This course builds on student's previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space, broaden their understanding of rates of change

to include the derivatives of polynomial, rational, exponential, and sinusoidal functions, and apply these concepts and skills to the modelling of real-world relationships. This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.

GRADE 12 ADVANCED FUNCTIONS (UNIVERSITY PREPARATION – MHF 4U1)

PREREQUISITE: MCR 3U1 OR MCT 4C1

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

GRADE 12 MATHEMATICS OF DATA MANAGEMENT (UNIVERSITY PREPARATION – MDM 4U1)

PREREQUISITE: MCR 3U1 OR MCF 3M1

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

GRADE 12 MATHEMATICS FOR COLLEGE TECHNOLOGY (COLLEGE PREPARATION – MCT 4C1)

PREREQUISITE: MCR 3U1 OR MCF 3M1

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. This course prepares students for a variety of college technology programs.

GRADE 12 FOUNDATIONS FOR COLLEGE MATHEMATICS (COLLEGE PREPARATION – MAP 4C1)

PREREQUISITE: MBF 3C1

This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyze data using statistical methods, solve problems involving applications of geometry and trigonometry, simplify expressions, and solve equations. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.

GRADE 12 MATHEMATICS FOR WORK AND EVERYDAY LIFE (WORKPLACE PREPARATION – MEL 4E1)

PREREQUISITE: MEL 3E1

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

NATIVE STUDIES

GRADE 10 ABORIGINAL PEOPLES IN CANADA (OPEN – NAC 201)

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.

GRADE 11 ABORIGINAL BELIEFS, VALUES AND ASPIRATIONS IN CONTEMPORARY SOCIETY (COLLEGE PREPARATION – NBV 3C1)

PREREQUISITE: NAC 201 OR CHC 2D1 OR CHC 2P1

This course focuses on the beliefs, values and aspirations of Aboriginal peoples in Canada. Students will examine world views of Aboriginal peoples and the political, economic, cultural

and social challenges facing individuals and communities. Students will also learn how traditional and contemporary beliefs and values influence the aspirations and actions of aboriginal peoples.

RELIGIOUS EDUCATION

In these courses, students are encouraged to understand and nurture within themselves the virtues which will enable them to deepen their relationship with God in the context of a Spirit-filled community.

GRADE 9 RELIGIOUS EDUCATION: BE WITH ME (OPEN – HRE 101)

The purpose of this course is to assist young people in understanding both the joy and demands of following in the way of Christ and living out the faith that our community professes in the Creed. Using the Beatitudes as a touchstone, students are invited to look at their lives through five different lenses (strands): Scripture, Profession of Faith, Christian Moral Development, Prayer, Sacramental Life, and Family Life.

GRADE 10 RELIGIOUS EDUCATION: CHRIST AND CULTURE (OPEN – HRE 201)

This course is intended to help students to deepen their commitment to their Faith by developing a more intimate relationship with God. Using the life and teachings of Jesus Christ as a cornerstone, students are invited to look at their lives through five different lenses (strands): Scripture, Profession of Faith, Christian Moral Development, Prayer, Sacramental Life and Family Life. **This course can be taken through a dramatic arts experience by signing up for HRE 20D.**

The student experience will include in-class presentations as well as public performances at local parishes and elementary schools. The HRE 20D course is only offered at Bishop MacDonell and St. James.

GRADE 11 WORLD RELIGIONS: BELIEFS AND DAILY LIFE (OPEN – HRF 301)

This course introduces students to the range and diversity of world religions, and examines how systems of belief affect individual lives and social relationships. Students will learn about a variety of religious beliefs, teachings, traditions, and practices. The course also helps students to develop skills used in researching and investigating topics related to world religions.

This course meets Group 1 of the Ministry Diploma requirements.

GRADE 11 WORLD RELIGIONS: BELIEFS, ISSUES, AND RELIGIOUS TRADITIONS (UNIVERSITY/COLLEGE -HRT 3M1)

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. **This course meets Group 1 of the Ministry Diploma requirements.**

RELIGIOUS EDUCATION: CHURCH AND CULTURE (UNIVERSITY/COLLEGE – HRE 4M1)

This course is directed toward the clear identification of Catholic moral principles and the concrete application of these principles in the lives of students. The course proceeds from foundational beliefs rooted in Sacred Scripture concerning justice and peace, to an exploration of the principles that shape Christian life. In the Family Life Education strand, students explore a variety of topics related to the themes of personhood, interpersonal relationships and sexuality. Special attention is given to the interaction between the Church and culture. The modern world is characterized by a multiplicity of values, philosophies, and ideologies. In a democratic, pluralistic society, these concepts may creatively reinforce one another or they may compete with and contradict one another.

RELIGIOUS EDUCATION: CHURCH AND CULTURE (OPEN – HRE 401)

This course assists students in their development of the skills and knowledge necessary to live lives of full maturity. Within the Catholic faith tradition, it is believed that this growth towards human maturity is best served when students are able to define themselves authentically in relation to their

God, to other people and to their world. In the Family Life Education strand, students explore a variety of topics related to the themes of personhood, interpersonal relationships and sexuality. Students will demonstrate a knowledge of the prophetic tradition in Scripture, become familiar with the social teachings of the Catholic Church, explore contemporary notions of spirituality and prayer, and recognize the importance, power and potential of the human person in relation to morality and personal choices concerning future life paths.

SCIENCE

GRADE 9 SCIENCE (ACADEMIC – SNC 1D1)

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. 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.

GRADE 9 SCIENCE (APPLIED – SNC 1P1)

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.

GRADE 9 SCIENCE (LOCALLY DEVELOPED – SNC 1L1)

This course reinforces and strengthens 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 and in the workplace. 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.

GRADE 10 SCIENCE (ACADEMIC – SNC 2D1)

PREREQUISITE: SNC 1D1 OR SNC 1P1

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.

GRADE 10 SCIENCE (APPLIED – SNC 2P1)

PREREQUISITE: SNC 1D1 OR SNC 1P1

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.

GRADE 10 SCIENCE (LOCALLY DEVELOPED – SNC 2L1)

PREREQUISITE: SNC 1P1 OR SNC 1L1

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

GRADE 11 BIOLOGY (UNIVERSITY PREPARATION – SBI 3U1)

PREREQUISITE: SNC 2D1

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. Students may have an opportunity to attend an overnight field trip related to the unit on diversity. There is a fee associated with this trip.

GRADE 11 CHEMISTRY (UNIVERSITY PREPARATION – SCH 3U1)

PREREQUISITE: SNC 2D1

Students will 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.

GRADE 11 PHYSICS (UNIVERSITY PREPARATION – SPH 3U1)

PREREQUISITE: SNC 2D1

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

GRADE 11 ENVIRONMENTAL SCIENCE (UNIVERSITY/COLLEGE – SVN 3M1)

PREREQUISITE: SNC 2P1 OR SNC 2D1

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. There will be an extensive use of Guelph Lake, hence a course fee will apply.

GRADE 11 BIOLOGY (COLLEGE PREPARATION – SBI 3C1)

PREREQUISITE: SNC 2D1 OR SNC 2P1

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.

GRADE 11 ENVIRONMENTAL SCIENCE (WORKPLACE PREPARATION – SVN 3E1)

PREREQUISITE: SNC 1P1, SNC 1L1, SNC 1D1, SNC 2P1, SNC 2D1 OR SNC 2L1

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

GRADE 12 BIOLOGY (UNIVERSITY PREPARATION – SBI 4U1)

PREREQUISITE: SBI 3U1

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.

GRADE 12 CHEMISTRY (UNIVERSITY PREPARATION – SCH 4U1)

PREREQUISITE: SCH 3U1

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.

GRADE 12 PHYSICS (UNIVERSITY PREPARATION – SPH 4U1)

PREREQUISITE: SPH 3U1

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

GRADE 12 EARTH AND SPACE SCIENCE (UNIVERSITY PREPARATION – SES 4U1)

PREREQUISITE: SNC 2D1

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 analyze 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 material 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.

GRADE 12 SCIENCE (UNIVERSITY/COLLEGE – SNC 4M1)

PREREQUISITE: SNC 2D1 OR ANY GRADE 11 UNIVERSITY, UNIVERSITY/COLLEGE OR COLLEGE PREPARATION COURSE IN SCIENCE

This course enables students, including those pursuing post-secondary programs outside the sciences, to increase their understanding of science and contemporary social and environmental issues in health-related fields. Students will explore a variety of medical technologies, pathogens and disease, nutritional science, public health issues, and biotechnology.

The course focuses on the theoretical aspects of the topics under study and helps refine students' scientific investigation skills.

GRADE 12 CHEMISTRY (COLLEGE PREPARATION – SCH 4C1)

PREREQUISITE: SNC 2P1 OR SNC 2D1

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.

GRADE 12 PHYSICS (COLLEGE PREPARATION – SPH 4C1)

PREREQUISITE: SNC 2D1 OR SNC 2P1

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.

GRADE 12 SCIENCE (WORKPLACE PREPARATION – SNC 4E1)

PREREQUISITE: SNC 2L1 OR SNC 2P1

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.

SOCIAL SCIENCES / HUMANITIES

GRADE 10 FOOD AND NUTRITION (OPEN – HFN 201)

This course will explore factors that affect attitudes and decisions about food, examine current issues of body image and food marketing, and is grounded in the scientific study of nutrition. Students will learn how to make informed food choices and how to prepare foods, and will investigate our Canadian food heritage, food industries, as well as global food issues. This course also introduces students to research skills related to food and nutrition.

GRADE 11 PARENTING (OPEN – HPC 301)

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. This course is also offered as a co-op. See School to Careers.

GRADE 11 LIVING SPACES AND SHELTER (OPEN – HLS 301)

This course analyzes 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.

GRADE 11 FASHION AND CREATIVE EXPRESSION (OPEN – HNC 301)

This course explores what clothing communicates about the wearer and how it becomes a creative and entrepreneurial outlet through the design and production processes. Students will learn, through practical experiences, about the nature of fashion design, the characteristics of fibres and fabrics, the construction, production, and marketing of clothing, and how to plan and care for a wardrobe that is appropriate for an

individual's appearance, activities, employment, and lifestyle. Students will develop research skills as they explore the evolution of fashion and its relationship to society, culture, and individual psychology. A nominal fee may be charged.

GRADE 11 MANAGING PERSONAL RESOURCES (WORKPLACE PREPARATION – HIP 3E1)

This course prepares students for living independently and working successfully with others. Students will learn to manage their personal resources (including talent, money, and time), to develop interpersonal skills, and to understand economic influences on workplace issues, in order to make wise and responsible personal and occupational choices. This course emphasizes the achievement of expectations through practical experiences and introduces students to skills used in researching and investigating resource management.

GRADE 12 PHILOSOPHY: QUESTIONS AND THEORIES (UNIVERSITY PREPARATION – HZT 4U1)

PREREQUISITE: ANY UNIVERSITY OR UNIVERSITY/COLLEGE PREPARATION COURSE IN SOCIAL SCIENCES AND HUMANITIES, ENGLISH OR CANADIAN AND WORLD STUDIES.

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.

GRADE 12 INDIVIDUALS AND FAMILIES IN A DIVERSE SOCIETY (UNIVERSITY/COLLEGE PREPARATION – HHS 4M1)

PREREQUISITE: ANY UNIVERSITY, UNIVERSITY/COLLEGE, OR COLLEGE PREPARATION COURSE IN SOCIAL SCIENCES AND HUMANITIES, ENGLISH, OR CANADIAN AND WORLD STUDIES.

This course applies current theories and research from the disciplines of anthropology, psychology and sociology to the study of individual development, family behaviour, intimate and parent-child relationships, and the ways in which families interact within the diverse Canadian society. Students will learn the interpersonal skills required to contribute to the well being of families and the investigation skills required to conduct and evaluate research about individuals and families.

GRADE 12 CHALLENGE AND CHANGE IN SOCIETY (UNIVERSITY/COLLEGE PREPARATION – HSB 4M1)

PREREQUISITE: ANY UNIVERSITY, UNIVERSITY/COLLEGE, OR COLLEGE PREPARATION COURSE IN SOCIAL SCIENCES AND HUMANITIES, ENGLISH, OR CANADIAN AND WORLD STUDIES.

This course examines the theories and methodologies used in anthropology, psychology and sociology to investigate and explain shifts in knowledge, attitudes, beliefs and behaviour and their impact on society. Students will analyse cultural, social and biological patterns in human societies, looking at the ways in which those patterns change over time. Students will also explore the ideas of classical and contemporary social theorists and apply those ideas to the analysis of contemporary trends.

GRADE 12 THE FASHION INDUSTRY (OPEN – HNB 401)

This course provides a historical perspective on fashion and design exploring the origins, influence and importance of fashion as an expression of national, cultural, religious and personal identity. Students will learn about the many facets of the Canadian fashion industry, including both large-scale and small entrepreneurial enterprises and its worldwide links, as well as gaining experience in garment design, production and care. This course also refines student's skills used in researching and investigating various aspects of the fashion industry.

TECHNOLOGICAL EDUCATION

In these courses, 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.

EXPLORING TECHNOLOGY

GRADE 9 EXPLORING TECHNOLOGIES (OPEN – TIJ 101)

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. In these courses, 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.

COMMUNICATIONS

GRADE 10 COMMUNICATIONS TECHNOLOGY (OPEN – TGJ 201)

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.

GRADE 11 COMMUNICATIONS TECHNOLOGY (UNIVERSITY/COLLEGE – TGJ 3M1)

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.

GRADE 11 COMMUNICATIONS TECHNOLOGY: BROADCAST AND PRINT PRODUCTION (OPEN – TGJ 301)

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.

GRADE 12 COMMUNICATIONS TECHNOLOGY (OPEN – TGJ 401)

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 will explore postsecondary education, training, and career opportunities.

GRADE 12 COMMUNICATIONS TECHNOLOGY (UNIVERSITY/COLLEGE – TGJ 4M1) PREREQUISITE: TGJ 3M1

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.

COMPUTER TECHNOLOGY

GRADE 10 COMPUTER TECHNOLOGY (OPEN – TEJ 201)

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.

GRADE 11 COMPUTER ENGINEERING TECHNOLOGY (UNIVERSITY/COLLEGE – TEJ 3M1)

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. This hands-on course will feature projects with robotics and control systems.

GRADE 12 COMPUTER ENGINEERING TECHNOLOGY (UNIVERSITY/COLLEGE – TEJ 4M1) PREREQUISITE: TEJ 3M1

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. This course qualifies as a dual credit course, having a curriculum which is aligned with specified college courses at Conestoga College. This hands-on course will feature projects with robotics and control systems.

CONSTRUCTION

All construction courses are offered at Bishop Macdonell. They may be a part of the Specialist High Skills Major and are open to all students.

GRADE 10 CONSTRUCTION TECHNOLOGY (OPEN – TCJ 201)

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.

GRADE 11 CONSTRUCTION ENGINEERING TECHNOLOGY (COLLEGE PREPARATION – TCJ 3C1)

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. This course is also offered as a female-only class.

GRADE 11 CONSTRUCTION TECHNOLOGY (WORKPLACE PREPARATION – TCJ 3E1)

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. This course is also offered as a female-only class.

GRADE 11 CUSTOM WOODWORKING (WORKPLACE PREPARATION – TWJ 3E1)

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.

GRADE 12 CONSTRUCTION ENGINEERING TECHNOLOGY (COLLEGE PREPARATION – TCJ 4C1)

PREREQUISITE TCJ 3C1

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. This course is also offered as a female-only class.

GRADE 12 CONSTRUCTION TECHNOLOGY (WORKPLACE PREPARATION – TCJ 4E1)

PREREQUISITE TCJ 3E1

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. This course is also offered as a female-only class.

GRADE 12 CUSTOM WOODWORKING (WORKPLACE PREPARATION – TWJ 4E1)

PREREQUISITE: TWJ 3E1

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.

GREEN INDUSTRIES

GRADE 10 GREEN INDUSTRIES (OPEN – THJ 201)

This course introduces students to the various sectors of the green industries – agriculture, forestry, horticulture, floristry, and landscaping.

Using materials, processes, and techniques commonly employed in these industries, students will participate in a number of hands-on projects that may include plant or animal propagation; production, maintenance, and harvesting activities; the development of floral or landscaping designs; and/or related construction activities.

HOSPITALITY AND TOURISM

GRADE 11 HOSPITALITY AND TOURISM (WORKPLACE PREPARATION – TFJ 3E1)

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.

MANUFACTURING

All manufacturing courses are offered at Lourdes. They may be a part of the High Skills Major at Lourdes and are open to all students.

GRADE 10 MANUFACTURING TECHNOLOGY (OPEN – TMJ 201)

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.

GRADE 11 MANUFACTURING TECHNOLOGY (UNIVERSITY/COLLEGE – TMJ 3M1)

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.

GRADE 11 MANUFACTURING TECHNOLOGY (COLLEGE PREPARATION – TMJ 3C1)

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

GRADE 11 MANUFACTURING TECHNOLOGY (WORKPLACE PREPARATION – TMJ 3E1)

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.

GRADE 12 MANUFACTURING ENGINEERING TECHNOLOGY (UNIVERSITY/COLLEGE – TMJ 4M1)

PREREQUISITE: TMJ 3M1

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 analyze and solve complex problems involved in manufacturing products.

GRADE 12 MANUFACTURING TECHNOLOGY (COLLEGE PREPARATION – TMJ 4C1)

PREREQUISITE: TMJ 3C1

This course enables students to further develop knowledge and skills related to machining, welding, print reading, computer numerical control, robotics and design. Students will develop proficiency in using mechanical, pneumatic, electronic, and computer control systems in a

project-based learning environment and may have opportunities to obtain industry-related training and certification.

GRADE 12 MANUFACTURING TECHNOLOGY (WORKPLACE PREPARATION – TMJ 4E1)

PREREQUISITE: TMJ 3E1
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.

TECHNOLOGICAL DESIGN

All Technological Design courses are offered at Bishop Macdonell. They may be a part of the High Skills Major and are open to all students.



GRADE 11 TECHNOLOGICAL DESIGN (UNIVERSITY/COLLEGE – TDJ 3M1)

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.

GRADE 12 TECHNOLOGICAL DESIGN (UNIVERSITY/COLLEGE – TDJ 4M1)

PREREQUISITE: TDJ 3M1)

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 their communication methods to present their designs.

TRANSPORTATION

All transportation courses are offered at Lourdes and St. James and are open to all students. They may be a part of the High Skills Major at Lourdes and are open to all students.

GRADE 10 TRANSPORTATION TECHNOLOGY (OPEN – TTJ 201)

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

GRADE 11 TRANSPORTATION TECHNOLOGY (COLLEGE PREPARATION – TTJ 3C1)

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.

GRADE 11 TRANSPORTATION TECHNOLOGY: VEHICLE OWNERSHIP (OPEN – TTJ 301)

This general interest course for girls 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.

GRADE 12 TRANSPORTATION TECHNOLOGY (COLLEGE PREPARATION – TTJ 4C1)

PREREQUISITE: TTJ 3C1

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

GRADE 12 TRANSPORTATION TECHNOLOGY: VEHICLE MAINTENANCE (WORKPLACE PREPARATION – TTJ 4E1)

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.





my
Blueprint^{2.0}
education planner

**PLAN
YOUR STEPS.**
**TRACK
YOUR PROGRESS.**
**UNLOCK
YOUR FUTURE.**

ABOUT MYBLUEPRINT 2.0

myBlueprint is an interactive resource designed for Grade 7-12 students and parents that lets you develop a course schedule, complete your Annual Education Plan (AEP), visually track towards graduation and instantly discover post-secondary opportunities that relate to the courses you take in high school.

HOW DO I GET STARTED?

1 Visit the website: www.myBlueprint.ca

2 Enter your **School Activation Key** in the blue New User box to create your own personal profile.

MYBLUEPRINT ACTIVATION KEY:

Bishop Macdonell: [macbishop](#)

Our Lady of Lourdes: [ourlourdes](#)

St. James: [jameschs](#)

**THE WEBSITE FOLLOWS AN EASY
THREE STEP APPROACH:**

1. My Profile (Grade 7-12)
2. High School Planner (Grade 8-12)
3. Post-Secondary Planner (Grade 9-12)

TRANSITION TO POST-SECONDARY

myBlueprint post-secondary prep is available for students graduating from high school to discover the secrets to success in post-secondary.

Visit www.myBlueprintPSP.ca for more information (Grade 12).

EXPLORE IT! EXPERIENCE IT!

A GUIDE TO DISTRICT COURSES AND PROGRAMS

BISHOP MACDONELL

CONSTRUCTION SHSM:

- Building My Community – Renovation
- Homebuild – New Construction

INFORMATION AND COMMUNICATION TECHNOLOGIES SHSM

Pending Ministry Approval

TECHNOLOGICAL EDUCATION COURSES

- Construction Technology
- Custom Woodworking
- Technological Design

ST. JAMES

ENVIRONMENT SHSM

- Environmental Science

TECHNOLOGICAL EDUCATION COURSES

- Green Industries
- Hospitality and Tourism
- Transportation Technology

TERRA: OUTDOOR ECOLOGICAL LEADERSHIP PROGRAM

OUR LADY OF LOURDES

MANUFACTURING SHSM

- Robotics
- Precision Machining

TRANSPORTATION SHSM TECHNOLOGICAL EDUCATION COURSES

- Hospitality and Tourism
- Manufacturing Technology
- Transportation Technology



DISTRICT COURSES & PROGRAMS

District Courses and Programs are ones that may be offered at only one, or two, but not all three of the Catholic High Schools in Guelph. These courses and programs are being offered and are open to any student within the Wellington Catholic District School Board who meet the requirement for that course or program.

REGISTRATION

Students who meet the requirements and are interested in registering for a specific District course or program will register through the Guidance Office at their home school. Students who register for a District course or program will attend at least a full semester at the school offering that course or program.

TRANSPORTATION

WITHIN THE CITY OF GUELPH

Students who select a District Course or Program who live within the City of Guelph will be provided transportation through the distribution of a Guelph Transit Pass.

OUTSIDE THE CITY OF GUELPH

Students who select a District Course or Program who live outside the City of Guelph will take their regular school bus to their home school, and then will be provided transportation through the distribution of a Guelph Transit Pass. If this is impractical, it may be necessary for the student to arrange for alternate personal transportation to the school offering the District Course or Program.



TERRA ECOLOGY LEADERSHIP PROGRAM

ST. JAMES

Using the outdoors as its primary classroom, the Terra Program will facilitate students taking a Grade 10 academic program in experiencing four credits through the lens of outdoor education, character development, leadership, team building, faith, and land stewardship.

- A four-credit package – Theology (HRE 20E), Careers and Civics (CHV/GLC 20E), Outdoor Activities (PAD 20E) and English (ENG 2DE).
- Engages students in experiential learning in all subject disciplines, in a variety of different contexts.
- Terra students will plan, organize and facilitate activities for Grade 3 students at the Ignatius Jesuit Centre throughout the semester.
- Terra students will take full advantage of the location through gardening, prayer, food, reflection, camping, hiking, snowshoeing, canoeing and various other outdoor experiences that enhance awareness, team building and leadership.

For more information contact Peter Glaab at 519-822-4290 ext. 236 or pglaab@wellingtoncdsb.ca.

PROGRAMS

PROGRAMS	LOCATION	PAGE
Terra: Ecology Leadership Program	St. James	29

SPECIALIST HIGH SKILLS MAJOR (SHSM)

Building My Community – Renovation	Bishop Macdonell	30
Homebuild – New Construction	Bishop Macdonell	30
Environment – Environmental Science	St. James	30
Information and Communication Technologies	Bishop Macdonell	31
Manufacturing - Robotics and Precision Machining	Our Lady of Lourdes	31
Transportation	Our Lady of Lourdes	31

TECHNOLOGICAL EDUCATION (SINGLE CREDIT) COURSES

Construction Technology	Bishop Macdonell	31
Custom Woodworking	Bishop Macdonell	31
Technological Design	Bishop Macdonell	31
Hospitality and Tourism	Our Lady of Lourdes	31
Manufacturing Technology	Our Lady of Lourdes	31
Transportation Technology	Our Lady of Lourdes	31
Green Industries	St. James	31
Hospitality and Tourism	St. James	31
Transportation Technology	St. James	31



SPECIALIST HIGH SKILLS MAJOR (SHSM)

WHAT IS A SPECIALIST HIGH SKILLS MAJOR?

A Specialist High Skills Major (SHSM) is a ministry-approved specialized program. An SHSM allows students to focus on knowledge and skills that are of a particular importance in certain economic sectors, and to obtain certifications recognized in those sectors, as they work towards meeting the requirements for an Ontario Secondary School Diploma (OSSD). Students who graduate with an SHSM designation on their diploma are prepared for success in the postsecondary destination of their choice, whether it be apprenticeship training, a college or university program or the workplace.

EVERY SHSM MUST INCLUDE THE FOLLOWING FIVE COMPONENTS:

1 A package of nine to eleven required credits in Grade 11 and 12 that constitute a pathway to one of four possible destinations: apprenticeship training, college, university, or the workplace.

THIS PACKAGE MUST INCLUDE:

- Four credits – called the “major” credits – for courses that provide knowledge and skills closely related to the particular sector of specialization;
- Three or four additional required credits for courses in English and other relevant disciplines (e.g., science, mathematics, or business studies), which include units of study that are customized to the particular program area;
- Two cooperative education credits;
- One-half credit for the Grade 10 Career Studies course.

2 Compulsory certifications, which are identified in each SHSM framework.

3 Experiential learning through job shadowing, work experience, and cooperative education.

4 Use of the Ontario Skills Passport (OSP) to document demonstration of essential skills and work habits.

5 “Reach ahead” opportunities, which allow students to experience learning in their intended postsecondary destination and which can range from a day of attendance at a college, university, or a workplace to the completion of a dual credit.

HOW WILL THE SPECIALIST HIGH SKILLS MAJOR BENEFIT STUDENTS?

- An SHSM allows a student to experience a range of customized, career-focused learning opportunities. It enables a student to take courses in an area of interest related to a particular sector while working towards an OSSD.
- The focused learning experiences of an SHSM program give students the opportunity to explore, identify, and refine career goals and make informed decisions related to postsecondary education, training, and next steps towards a career.
- The experiential learning opportunities provided in an SHSM enable students to refine their skills and improve their work habits, gain confidence in their ability to succeed, and see the connections between their studies, the real world, and their future careers. Students are also able to begin to establish relationships and networks in their chosen fields.
- Students who graduate with a SHSM can look forward to improved prospects after secondary school because of the recognition of and support of the SHSM framework content from a variety of representatives from the economic sector, apprenticeship training programs, colleges, and universities.

CONSTRUCTION SHSM BISHOP MACDONELL

BUILDING MY COMMUNITY – RENOVATION

As part of the Construction SHSM, students will participate in a three-credit technology program called Building My Community. Those participating will be part of a construction crew that will work on a renovation project. They will have a hands-on

experience in all aspects of home renovation such as framing, wiring, plumbing, insulating, drywalling, trimming and painting.

**For more information contact
Brian Andres at 519-822-8502 ext. 230 or
bandres@wellingtoncdsb.ca.**

HOMEBUILD – NEW CONSTRUCTION

As part of the Construction SHSM, students will participate in a three-credit technology program called Homebuild. Those participating will be part of a construction crew that will work in a residential housing site in the community, building a house. They will have a hands-on experience in all aspects of house building such as concrete work, framing, wiring, plumbing, insulating, drywalling, trimming and painting.

**For more information contact
Brian Andres at 519-822-8502 ext. 230 or
bandres@wellingtoncdsb.ca.**

THE ENVIRONMENT ST. JAMES

ENVIRONMENTAL SCIENCE

This SHSM will build on the Terra Program and will focus on ecology, spirituality, leadership, and character development. Students will examine the complexity and fragility of ecosystems through academic and practical learning experiences. Ultimately, students will develop the skills necessary for environmental programs in the postsecondary destination of their choice. In partnership with the Grand River Conservation Authority, students will also receive certification in Standard First Aid, CPR, Workplace Hazardous Management Information System (WHMIS), and Global Positioning System (GPS). Students selecting the SHSM program in the Environment will also study courses in biology and environmental science.

**For more information contact
Irene Doyle at 519-822-4290 ext. 383 or
idoyle@wellingtoncdsb.ca.**

INFORMATION AND COMMUNICATION TECHNOLOGIES BISHOP MACDONELL

GRAPHIC COMMUNICATIONS

Information and Communications Technology (ICT) is the sector that processes information (which includes capturing, transmitting, and displaying information) using electronic systems. The ICT sector continues to transform our economy and everyday life and includes a range of activities dealing with design and development, sales and marketing, security, training, and maintenance and repair. This SHSM in Information and Communications Technology will be designed to have a particular focus on communication systems, but may include computer systems, or software and digital media.

MANUFACTURING OUR LADY OF LOURDES

PRECISION MACHINING AND ROBOTICS

At Lourdes, the SHSM in Manufacturing prepares students with conventional and computer-aided machine shop and design skills to help them make career and post secondary education choices whether it be university or college engineering programs, apprenticeships, or directly into the workplace as machine operators. Students will study computer engineering and manufacturing courses, which will include an introduction to robotic concepts and automation as well as certification training in areas such as lift trucks, tow-motor, lock out or tag out, and fall arrest (working above eight feet with a harness).

For more information contact
Gerald DellaSavia at 519-836-2170 ext. 103309 or gdellasavia@wellingtoncdsb.ca



OFFERED BY:

MINISTRY COURSE CODE
(1ST THREE LETTERS)

BISHOP MACDONELL

Construction Technology	TCJ
Custom Woodworking	TWJ
Technological Design	TDJ

OUR LADY OF LOURDES

Hospitality and Tourism	TFJ
Manufacturing Technology	TMJ
Transportation Technology	TTJ

ST. JAMES

Green Industries	THJ
Hospitality and Tourism	TFJ
Transportation Technology	TTJ

TRANSPORTATION TECHNOLOGY OUR LADY OF LOURDES

TRANSPORTATION

This SHSM in transportation provides students with a strong foundation for a wide variety of careers in the transportation sector, from those focusing on the service, repair, and modification of vehicles and vehicle systems to those related to the organization and management of transportation services and mass-transit systems.

For more information contact
Gerald DellaSavia at 519-836-2170 ext. 103309 or gdellasavia@wellingtoncdsb.ca

TECHNOLOGICAL EDUCATION SINGLE CREDIT COURSES

The courses in the chart above are considered District Courses and are available to any student whose home school does not provide it.

For a descriptor of the courses, see the Course Calendar or contact a guidance counsellor at your home school.

GUIDANCE DEPARTMENT HEADS

BISHOP MACDONELL

Penny Larue at 519-822-9752 ext. 322
plarue@wellingtoncdsb.ca

OUR LADY OF LOURDES

Marty Bell at 519-836-2170 ext. 103513
mbell@wellingtoncdsb.ca

ST. JAMES

Patti Spedler at 519-822-4290 ext. 252
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CALLED BY NAME
CALLED TO BE