

BMLSS COURSE DESCRIPTIONS

2025 - 2026



GRADE 9 COURSES

COURSE	DESCRIPTION
ADA1OR	<p>DRAMA, GRADE 9, OPEN</p> <p>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.</p>
AMU1OR	<p>MUSIC, GRADE 9, OPEN</p> <p>This course emphasizes the creation and performance of music at a level consistent with previous experience and is aimed at developing technique, sensitivity, and imagination. Students will develop musical literacy skills by using the creative and critical analysis processes in composition, performance, and a range of reflective and analytical activities. Students will develop an understanding of the conventions and elements of music and of safe practices related to music, and will develop a variety of skills transferable to other areas of their life.</p>
AMV1OR	<p>MUSIC - VOCAL/CHORAL, GRADE 9, OPEN</p> <p>This course emphasizes the performance of music at a level that strikes a balance between challenge and skill and is aimed at developing singing 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.</p>
AVI1OR	<p>VISUAL ARTS, GRADE 9, OPEN</p> <p>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.</p>
BEM1OR	<p>BUILDING THE ENTREPRENEURIAL MINDSET, GRADE 9, OPEN</p> <p>In this course, students will learn what makes an entrepreneur thrive and the skills required to succeed in today's business environment. Students will begin to develop their own entrepreneurial mindset, and learn why it's important to take initiative, adapt to change, find creative solutions, and understand the financial considerations of entrepreneurship. This hands-on course will use business software and applications to help students plan and develop their entrepreneurial ideas and learn how to present them to a target audience. Throughout the course, students will enhance their communications skills as well as develop and refine their project management skills, including goal setting, time management, and networking.</p>

CGC1WR	<p>EXPLORING CANADIAN GEOGRAPHY, GRADE 9, DE-STREAMED</p> <p>This course builds on learning in Grades 7 and 8 in geography. Students will explore relationships within and between Canada’s natural and human systems and how they interconnect with other parts of the world. Students will also examine environmental and economic issues, and their impact related to topics such as natural resources and industries, careers, land use and responsible development, and sustainability. In addition, students will understand the connections that diverse communities and individuals have with the physical environment and each other throughout Canada, including First Nations, Métis, and Inuit perspectives. Students will apply geographic thinking, use the geographic inquiry process, and use geospatial technologies throughout their investigations.</p>
CGC1WI	<p>EXPLORING CANADIAN GEOGRAPHY, GRADE 9, DE-STREAMED, FRENCH</p> <p>This course, delivered in French, builds on learning in Grades 7 and 8 in geography. Students will explore relationships within and between Canada’s natural and human systems and how they interconnect with other parts of the world. Students will also examine environmental and economic issues, and their impact related to topics such as natural resources and industries, careers, land use and responsible development, and sustainability. In addition, students will understand the connections that diverse communities and individuals have with the physical environment and each other throughout Canada, including First Nations, Métis, and Inuit perspectives. Students will apply geographic thinking, use the geographic inquiry process, and use geospatial technologies throughout their investigations.</p>
ENL1WR	<p>ENGLISH, GRADE 9, DE-STREAMED</p> <p>This course enables students to continue to develop and consolidate the foundational knowledge and skills that they need for reading, writing, and oral and visual communication. Throughout the course, students will continue to enhance their media literacy and critical literacy skills, and to develop and apply transferable skills, including digital literacy. Students will also make connections to their lived experiences and to society and increase their understanding of the importance of language and literacy across the curriculum.</p>
ENG1LR	<p>ENGLISH, GRADE 9, LOCALLY DEVELOPED</p> <p>This course provides grade nine students with the essential foundations of literacy and communication skills that will help them in their daily lives. This course is designed to develop listening, speaking, reading and writing skills by developing strategies and putting them into practice.</p>
FIF1DR	<p>FRENCH IMMERSION, GRADE 9, ACADEMIC</p> <p>This course provides opportunities for students to speak and interact in French independently in a variety of real-life and personally relevant contexts. Students will develop their skills in listening, speaking, reading, and writing, as well their ability to communicate in French with confidence, by using language learning strategies introduced in the elementary French Immersion program. Students will enhance their knowledge of the French language through the study of French Canadian literature. They will also increase their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.</p>
FSF1DR	<p>CORE FRENCH, GRADE 9, ACADEMIC</p> <p>This course provides opportunities for students to communicate and interact in French with increasing independence, with a focus on familiar topics related to their daily lives. Students will develop their skills in listening, speaking, reading, and writing by using language learning strategies introduced in the elementary Core French program, and will apply creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.</p>

GLE1OR	<p>LEARNING STRATEGIES 1: SKILLS FOR SUCCESS IN SECONDARY SCHOOL, GRADE 9, OPEN</p> <p>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.</p>
HFN1OR	<p>FOOD AND NUTRITION, GRADE 9, OPEN</p> <p>This course focuses on guidelines for making nutritious food choices. Students will investigate factors that influence food choices, including beliefs, attitudes, current trends, traditional eating patterns, food-marketing strategies, and individual needs. Students will also explore the environmental impact of a variety of food choices at the local and global level. The course provides students with opportunities to develop food-preparation skills and introduces them to the use of social science research methods in the area of food and nutrition.</p>
MTH1WR	<p>MATHEMATICS, GRADE 9, DE-STREAMED</p> <p>This course enables students to consolidate, and continue to develop, an understanding of mathematical concepts related to number sense and operations, algebra, measurement, geometry, data, probability, and financial literacy. Students will use mathematical processes, mathematical modeling, and coding to make sense of the mathematics they are learning and to apply their understanding to culturally responsive and relevant real-world situations. Students will continue to enhance their mathematical reasoning skills, including proportional reasoning, spatial reasoning, and algebraic reasoning, as they solve problems and communicate their thinking.</p>
MAT1LR	<p>MATHEMATICS, GRADE 9, LOCALLY DEVELOPED</p> <p>This course emphasizes reinforcing and strengthening math-related knowledge and skills, including money sense, measurement and proportional reasoning, to prepare students for success in everyday life, in the workplace, and in future Grade 10 courses.</p>
LNMAOR	<p>MOHAWK LANGUAGE, LEVEL 1, OPEN</p> <p>This course is open to the entire student body and will allow students who have no prior Native language experience to develop an appreciation for a Native language and culture, to explore and experience a unique worldview, and to learn to speak a Native language. Students will use the language being studied for greetings and daily routines, become familiar with its writing and sound system, and practicing basic vocabulary and phrases. Students will also use information technology during course-related activities.</p>
PPL1OF	<p>HEALTHY ACTIVE LIVING EDUCATION, GRADE 9, OPEN, FEMALE</p> <p>This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>

PPL10M	<p>HEALTHY ACTIVE LIVING EDUCATION, GRADE 9, OPEN, MALE</p> <p>This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
PAF10R	<p>HEALTHY ACTIVE LIVING AND PERSONAL AND FITNESS ACTIVITIES, GRADE 9, OPEN</p> <p>This course equips students with the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
SNC1WR	<p>SCIENCE, GRADE 9, DE-STREAMED</p> <p>This course enables students to develop their understanding of concepts related to biology, chemistry, physics, and earth and space science, and to relate science to technology, society, and the environment. Throughout the course, students will develop and refine their STEM skills as they use scientific research, scientific experimentation, and engineering design processes to investigate concepts and apply their knowledge in situations that are relevant to their lives and communities. Students will continue to develop transferable skills as they become scientifically literate global citizens.</p>
SNC1LR	<p>SCIENCE, GRADE 9, LOCALLY DEVELOPED</p> <p>This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking, and the relationship between science, society, and the environment, to prepare students for success in everyday life and the workplace.</p>
TAS10R	<p>TECHNOLOGY AND THE SKILLED TRADES, GRADE 9, OPEN</p> <p>This hands-on course enables students to further explore the engineering design process and develop other technological knowledge and skills introduced in earlier grades. Students will design and safely create prototypes, products, and/or services, working with tools and technologies from various industries. As students develop their projects to address real-life problems, they will apply technological concepts such as precision measurement, as well as health and safety standards. Students will begin to explore job skills programs and education and training pathways, including skilled trades, that can lead to a variety of careers.</p>

GRADE 10 COURSES

COURSE	DESCRIPTION
ADA2OR	<p>DRAMA, GRADE 10, OPEN</p> <p>This course provides opportunities for students to explore dramatic forms, conventions, and techniques. Students will explore a variety of dramatic sources from various cultures 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.</p>
AMG2OR	<p>MUSIC - GUITAR, GRADE 10, OPEN</p> <p>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. Chording and strumming techniques on guitar will be the main focus of performance, although sight reading standard notation and TAB will be introduced (students will be provided with an acoustic guitar).</p>
AMU2OR	<p>MUSIC, GRADE 10, OPEN</p> <p>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.</p>
AMV2OR	<p>MUSIC - VOCAL/CHORAL, GRADE 10, OPEN</p> <p>This course emphasizes the performance of music at a level that strikes a balance between challenge and skill and is aimed at developing singing 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.</p>
AVI2OR	<p>VISUAL ARTS, GRADE 10, OPEN</p> <p>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.</p>
BEP2OR	<p>LAUNCHING AND LEADING A BUSINESS, GRADE 10, OPEN</p> <p>This course introduces students to the world of business and what is required to be successful, ethical, and responsible in today's economy. Students will develop the knowledge and skills needed to be an entrepreneur who knows how to respond to local and global market opportunities. Throughout the course, students will explore and understand the responsibility of managing different functions of a business. This includes accounting, marketing, information and communication technology, financial management, human resources, and production.</p>

CHC2DI	<p>CANADIAN HISTORY SINCE WORLD WAR I, GRADE 10, ACADEMIC, FRENCH</p> <p>This course explores social, economic, and political developments and events and their impact on the lives of different individuals, groups, and communities, including First Nations, Métis, and Inuit individuals and communities, in Canada since 1914. Students will examine the role of conflict and cooperation in Canadian society, Canada’s evolving role within the global community, and the impact of various individuals, organizations, and events on identities, citizenship, and heritage in Canada. Students will develop an understanding of some of the political developments and government policies that have had a lasting impact on First Nations, Métis, and Inuit individuals and communities. They will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key issues and events in Canadian history since 1914.</p>
CHC2LR	<p>CANADIAN HISTORY SINCE WORLD WAR 1, GRADE 10, LOCALLY DEVELOPED</p> <p>This course explores some of the pivotal events and experiences that have influenced the development of Canada's identity as a nation from World War I to the present. By examining how the country has responded to economic, social, and technological changes and how individuals and groups have contributed to Canadian culture and society during this period, students will develop their ability to make connections between historical and current events. Students will have opportunities to formulate questions, locate information, develop informed opinions, and present ideas about the central issues and events of the period.</p>
CHC2PR	<p>CANADIAN HISTORY SINCE WORLD WAR 1, GRADE 10, APPLIED</p> <p>This course focuses on the social context of historical developments and events and how they have affected the lives of people in Canada, including First Nations, Métis, and Inuit individuals and communities, since 1914. Students will explore interactions between various communities in Canada as well as contributions of individuals and groups to heritage and identities in Canada. Students will develop an understanding of some key political developments and government policies that have had an impact on First Nations, Métis, and Inuit individuals and communities. They will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating the continuing relevance of historical developments and how they have helped shape communities in present-day Canada.</p>
CHC2DR	<p>CANADIAN HISTORY SINCE WORLD WAR 1, GRADE 10, ACADEMIC, ENGLISH</p> <p>This course explores social, economic, and political developments and events and their impact on the lives of different individuals, groups, and communities, including First Nations, Métis, and Inuit individuals and communities, in Canada since 1914. Students will examine the role of conflict and cooperation in Canadian society, Canada’s evolving role within the global community, and the impact of various individuals, organizations, and events on identities, citizenship, and heritage in Canada. Students will develop an understanding of some of the political developments and government policies that have had a lasting impact on First Nations, Métis, and Inuit individuals and communities. They will develop their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key issues and events in Canadian history since 1914.</p>

CHV2OR	<p>CIVICS AND CITIZENSHIP, GRADE 10, OPEN, ENGLISH</p> <p>This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today’s world and of personal interest to them. This course also includes learning on digital literacy and critical-thinking skills, the mechanisms of government, Indigenous governance systems and structures, the historical foundations of the rights and freedoms we enjoy in Canada, ways in which government policy affects individuals’ lives and the economy, and ways for students to serve their communities.</p>
CHV2OI	<p>CIVICS AND CITIZENSHIP, GRADE 10, OPEN, FRENCH</p> <p>This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today’s world and of personal interest to them. This course also includes learning on digital literacy and critical-thinking skills, the mechanisms of government, Indigenous governance systems and structures, the historical foundations of the rights and freedoms we enjoy in Canada, ways in which government policy affects individuals’ lives and the economy, and ways for students to serve their communities.</p>
ENG2LR	<p>ENGLISH, GRADE 10, LOCALLY DEVELOPED</p> <p>In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives and in the workplace. The course is organized into strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy. Students build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing and thinking. An important focus will be on using language clearly, accurately, and effectively in a variety of contexts, including an introduction to Business English with electronic media applications.</p>
ENG2PR	<p>ENGLISH, GRADE 10, APPLIED</p> <p>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.</p>
ENG2DR	<p>ENGLISH, GRADE 10, ACADEMIC</p> <p>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.</p>

FIF2DR	<p>FRENCH IMMERSION, GRADE 10, ACADEMIC</p> <p>This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will use a variety of language learning strategies in listening, speaking, reading, and writing, and will respond to and interact with print, oral, visual, and electronic texts. Students will develop their knowledge of the French language through the study of contemporary French literature and historically well-known French European literature. They will also increase their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.</p>
FSF2DR	<p>CORE FRENCH, GRADE 10, ACADEMIC</p> <p>This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics in real-life situations with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will develop their skills in listening, speaking, reading, and writing through the selective use of strategies that contribute to effective communication. They will also increase their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.</p>
GLC2OR	<p>CAREER STUDIES, GRADE 10, OPEN, ENGLISH</p> <p>This course gives students the opportunity to develop the skills, knowledge, and habits that will support them in their education and career/life planning. Students will learn about global work trends, and seek opportunities within the school and community to expand and strengthen their transferable skills and their ability to adapt to the changing world of work. On the basis of exploration, reflective practice, and decision-making processes, students will make connections between their skills, interests, and values and their postsecondary options, whether in apprenticeship training, college, community living, university, or the workplace. They will set goals and create a plan for their first postsecondary year. As part of their preparation for the future, they will learn about personal financial management – including the variety of saving and borrowing tools available to them and how to use them to their advantage – and develop a budget for their first year after secondary school.</p>
GLC2OI	<p>CAREER STUDIES, GRADE 10, OPEN, FRENCH</p> <p>This course gives students the opportunity to develop the skills, knowledge, and habits that will support them in their education and career/life planning. Students will learn about global work trends, and seek opportunities within the school and community to expand and strengthen their transferable skills and their ability to adapt to the changing world of work. On the basis of exploration, reflective practice, and decision-making processes, students will make connections between their skills, interests, and values and their postsecondary options, whether in apprenticeship training, college, community living, university, or the workplace. They will set goals and create a plan for their first postsecondary year. As part of their preparation for the future, they will learn about personal financial management – including the variety of saving and borrowing tools available to them and how to use them to their advantage – and develop a budget for their first year after secondary school.</p>
GLE2OR	<p>LEARNING STRATEGIES 1: SKILLS FOR SUCCESS IN SECONDARY SCHOOL, GRADE 10, OPEN</p> <p>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.</p>

HNL2OR	<p>CLOTHING, GRADE 10, OPEN</p> <p>This course introduces students to the world of clothing. Students will gain knowledge about clothing and demonstrate basic skills associated with various techniques and technologies used to create garments and accessories. Students will learn about the functions of clothing and accessories and what clothing communicates about the wearer. They will learn how to enhance their personal wardrobe by assessing garment quality, developing shopping strategies, and developing an understanding of the advantages and disadvantages of various retail formats. Students will develop research skills as they investigate topics related to clothing.</p>
ICD2OR	<p>DIGITAL TECHNOLOGY AND INNOVATIONS IN THE CHANGING WORLD, GRADE 10, OPEN</p> <p>This course helps students develop cutting-edge digital technology and computer programming skills that will support them in contributing to and leading the global economic, scientific and societal innovations of tomorrow. Students will learn and apply coding concepts and skills to build hands-on projects and investigate artificial intelligence, cybersecurity, and other emerging digital technologies that connect to a wide range of fields and careers. Using critical thinking skills with a focus on digital citizenship, students will investigate the appropriate use and development of the digital technologies that they encounter every day, as well as the benefits and limitations of these technologies.</p>
LNMAOR LNMBOR	<p>INDIGENOUS LANGUAGE - MOHAWK, LEVEL 1 AND 2, OPEN</p> <p>This course is open to the entire student body and will allow students who have no prior indigenous language experience to develop an appreciation for an indigenous language and culture, to explore and experience a unique worldview, and to learn to speak an indigenous language. Students will use the language being studied for greetings and daily routines, become familiar with its writing and sound system, and practice basic vocabulary and phrases. Students will also use information technology during course-related activities.</p>
MAT2LR	<p>MATHEMATICS, GRADE 10, LOCALLY DEVELOPED</p> <p>This course emphasizes the extension of mathematical knowledge in their everyday lives, in the workplace, and in the Grade 11 and Grade 12 Mathematics, Workplace Preparation courses. The course is organized by three major strands related to money sense, measurement, and proportional reasoning. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.</p>
MF2PR	<p>FOUNDATIONS OF MATHEMATICS, GRADE 10, APPLIED</p> <p>This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.</p>
MPM2DR	<p>PRINCIPLES OF MATHEMATICS, GRADE 10, ACADEMIC</p> <p>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.</p>

PAF2OF	<p>HEALTHY LIVING AND PERSONAL AND FITNESS ACTIVITIES, GRADE 10, OPEN, FEMALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
PAF2OM	<p>HEALTHY LIVING AND PERSONAL AND FITNESS ACTIVITIES, GRADE 10, OPEN, MALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
PPL2OF	<p>HEALTHY AND ACTIVE LIVING EDUCATION, GRADE 10, OPEN, FEMALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
PPL2OM	<p>HEALTHY AND ACTIVE LIVING EDUCATION, GRADE 10, OPEN, MALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities, students develop knowledge and skills related to movement competence and personal fitness that provide a foundation for active living. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
SNC2LR	<p>SCIENCE, GRADE 10, LOCALLY DEVELOPED</p> <p>This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking, and the environmental impact of science and technology, to prepare students for success in everyday life, in the workplace and in the Science Grade 11 Workplace Preparation course. Students explore a range of topics including science in the media, interactions of common materials, interdependence of organisms in communities, and using electrical energy.</p>
SNC2PR	<p>SCIENCE, GRADE 10, APPLIED</p> <p>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.</p>

SNC2DR	<p>SCIENCE, GRADE 10, ACADEMIC</p> <p>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.</p>
TCJ2OR	<p>CONSTRUCTIONS TECHNOLOGY, GRADE 10, OPEN</p> <p>This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and postsecondary pathways leading to careers in the industry.</p>
TCJ2OF	<p>CONSTRUCTIONS TECHNOLOGY, GRADE 10, OPEN, FEMALE</p> <p>This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and postsecondary pathways leading to careers in the industry.</p>
TDJ2OR	<p>TECHNOLOGICAL DESIGN, GRADE 10, OPEN</p> <p>This course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and postsecondary education and training leading to careers in the field.</p>
TFJ2OR	<p>HOSPITALITY AND TOURISM, GRADE 10, OPEN</p> <p>This course provides students with opportunities to explore different areas of hospitality and tourism, as reflected in the various sectors of the tourism industry, with an emphasis on food service. Students will study culinary techniques of food handling and preparation, health and safety standards, the use of tools and equipment, the origins of foods, and event planning, and will learn about tourism attractions across Ontario. Students will develop an awareness of related environmental and societal issues, and will explore secondary and postsecondary pathways leading to careers in the tourism industry.</p>
TGJ2OR	<p>COMMUNICATIONS TECHNOLOGY, GRADE 10, OPEN</p> <p>This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/video and movie production, radio and audio production, print and graphic communications, photography, and interactive new media and animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology, and will explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.</p>

TPJ2OR	HEALTH CARE, GRADE 10, OPEN This course introduces students to personal health promotion, child and adolescent health concerns, and a variety of medical services, treatments, and technologies. Students will become familiar with various instruments and equipment and will learn about human anatomy, organs, and body chemistry, as well as the effects that lifestyle choices can have on personal well-being. They will plan recreational activities for youth, perform a dietary analysis, and evaluate health care practices. Students will develop an awareness of environmental and societal issues related to health care, and will explore secondary and postsecondary pathways leading to careers in the field.
TTJ2OR	TRANSPORTATION TECHNOLOGY, GRADE 10, OPEN This course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self-propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues, and will explore secondary and postsecondary pathways leading to careers in the transportation industry.

GRADE 11 COURSES

COURSE	DESCRIPTION
ADA3MR	<p>DRAMA, GRADE 11, UNIVERSITY/COLLEGE</p> <p>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.</p>
AMG3MR	<p>MUSIC - GUITAR, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This course develops students' musical literacy through performance and the preparation and presentation of music productions. Students will perform works at a level consistent with previous experience. Independently and collaboratively, students will use current technology and the creative and critical analysis processes to plan, produce, present, and market musical productions. Students will respond to, reflect on, and analyze music from various genres and periods, and they will develop skills transferable to other aspects of their life and their careers. Chording and strumming techniques on guitar will be the main focus of performance, although sight reading standard notation and TAB will be introduced (students will be provided with an acoustic guitar).</p>
AMU3MR	<p>MUSIC, GRADE 11, UNIVERSITY/COLLEGE</p> <p>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 life and careers.</p>
AMV3MR	<p>MUSIC - VOCAL/CHORAL, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This 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. Independently and in groups, they will also plan, market, and produce music, making use of appropriate technology, and will evaluate the results.</p>
ASM3MR	<p>MEDIA ARTS, GRADE 11, UNIVERSITY/COLLEGE</p> <p>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 values.</p>
AVI3MR	<p>VISUAL ARTS, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using emerging technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular art form (e.g., photography, video, computer graphics, information design).</p>

AWQ3MR	<p>VISUAL ARTS - PHOTOGRAPHY, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This course focuses on the development of photography skills through the production of art works involving traditional and emerging technologies, tools, and techniques such as web environments. Students will explore the evolution of photography as an extension of traditional art forms, use the creative process to produce effective photographs, and critically analyze the unique characteristics of this art form. Students will examine the role of photo artists in shaping audience perceptions of identity, culture, and values. Students will think conceptually, and create a website of their works as a final portfolio.</p>
BAF3MR	<p>FINANCIAL ACCOUNTING FUNDAMENTALS, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This course introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of accounting for a service and a merchandising business, computerized accounting, financial analysis, and ethics and current issues in accounting.</p>
BDI3CR	<p>ENTREPRENEURSHIP: THE VENTURE, GRADE 11, COLLEGE</p> <p>This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a school-based or student-run business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.</p>
CGG3OR	<p>TRAVEL AND TOURISM: A GEOGRAPHIC PERSPECTIVE, GRADE 11, OPEN</p> <p>This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends as well as tensions related to tourism, and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities.</p>
CHW3MR	<p>WORLD HISTORY TO THE END OF THE 15TH CENTURY, GRADE 11, UNIVERSITY/COLLEGE, ENGLISH</p> <p>This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.</p>
CHW3MI	<p>WORLD HISTORY TO THE END OF THE 15TH CENTURY, GRADE 11, UNIVERSITY/COLLEGE, FRENCH</p> <p>This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras.</p>

CLU3MR	<p>UNDERSTANDING CANADIAN LAW, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of laws relating to rights and freedoms in Canada; our legal system; and family, contract, employment, tort, and criminal law. Students will develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating a range of legal issues and formulating and communicating informed opinions about them.</p>
DCO3OS	<p>SINGLE CREDIT CO-OP, GRADE 11, OPEN</p> <p>This course consists of a learning experience connected to a community and a cooperative education curriculum focused on developing skills, knowledge, and habits of mind that will support students in their learning, including their education and career/life planning, at school and beyond, today and in the future. Within the context of their experience connected to a community, students will apply skills, knowledge, and habits of mind that will protect and promote their health, safety, and well-being and that will strengthen their inquiry, decision-making, and leadership skills. Students will create and implement a learning plan that meets their particular interests and needs, reflect on their learning, and make connections between their experience in the community and other aspects of their lives.</p>
ENG3ER	<p>ENGLISH, GRADE 11, WORKPLACE</p> <p>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.</p>
ENG3CR	<p>ENGLISH, GRADE 11, COLLEGE</p> <p>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.</p>
ENG3UR	<p>ENGLISH, GRADE 11, UNIVERSITY</p> <p>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.</p>
FIF3UR	<p>FRENCH IMMERSION, GRADE 11, UNIVERSITY</p> <p>This course provides opportunities for students to consolidate the communication skills required to speak and interact with increasing confidence and accuracy in French in a variety of academic and social contexts. Students will use their skills in listening, speaking, reading, and writing and apply language learning strategies while exploring a variety of concrete and abstract topics. Students will increase their knowledge of the French language through the study of French literature from around the world. They will also deepen their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.</p>

FSF3UR	<p>CORE FRENCH, GRADE 11, UNIVERSITY</p> <p>This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence. Students will develop their listening, speaking, reading, and writing skills, as well as their creative and critical thinking skills, through responding to and exploring a variety of oral and written texts. They will also broaden their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.</p>
GPP3OR	<p>LEADERSHIP AND PEER SUPPORT, GRADE 11, OPEN</p> <p>This course prepares students to act in leadership and peer support roles. They will design and implement a plan for contributing to their school and/or community; develop skills in communication, interpersonal relations, teamwork, and conflict management; and apply those skills in leadership and/or peer support roles – for example, as a student council member or a peer tutor. Students will examine group dynamics and learn the value of diversity within groups and communities.</p>
GLE3OR	<p>ADV. LEARNING STRATEGIES: SKILLS FOR SUCCESS AFTER SECONDARY SCHOOL, GRADE 11, OPEN</p> <p>This course improves students' learning and personal-management skills, preparing them to make successful transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal-management techniques to maximize their learning. Students will investigate trends and resources to support their postsecondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals.</p>
GWL3OD	<p>TWO-CREDIT CO-OP, GRADE 11, OPEN</p> <p>This course prepares students to make successful transitions to postsecondary destinations as they investigate specific postsecondary options based on their skills, interests, and personal characteristics. Students will explore the realities and opportunities of the workplace and examine factors that affect success, while refining their job-search and employability skills. Students will develop their portfolios with a focus on their targeted destination and develop an action plan for future success.</p>
GWL3OQ	<p>FOUR-CREDIT CO-OP, GRADE 11, OPEN</p> <p>This course prepares students to make successful transitions to postsecondary destinations as they investigate specific postsecondary options based on their skills, interests, and personal characteristics. Students will explore the realities and opportunities of the workplace and examine factors that affect success, while refining their job-search and employability skills. Students will develop their portfolios with a focus on their targeted destination and develop an action plan for future success.</p>
HNC3CR	<p>UNDERSTANDING FASHION, GRADE 11, COLLEGE</p> <p>This course introduces students to the world of fashion. Students will gain an understanding of theories related to fashion trends and of how culture, media, fashion cycles, retailing, and social and environmental factors influence fashion trends and consumer behaviour. Students will use various tools, technologies, and techniques safely and correctly to create fashion items. In addition, students will apply knowledge of fibres, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion.</p>
HSP3CR	<p>INTRODUCTION TO ANTHROPOLOGY, PSYCHOLOGY, AND SOCIOLOGY, GRADE 11, COLLEGE</p> <p>This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. Students will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues within the three disciplines.</p>

HSP3UR	<p>INTRODUCTION TO ANTHROPOLOGY, PSYCHOLOGY, AND SOCIOLOGY, GRADE 11, UNIVERSITY</p> <p>This course provides students with opportunities to think critically about theories, questions, and issues related to anthropology, psychology, and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives, to conduct social science research, and to become familiar with current thinking on a range of issues within the three disciplines.</p>
ICS3CR	<p>INTRODUCTION TO COMPUTER PROGRAMMING, GRADE 11, COLLEGE</p> <p>This course introduces students to computer programming concepts and practices. Students will write and test computer programs, using various problem-solving strategies. They will learn the fundamentals of program design and apply a software development life-cycle model to a software development project. Students will also learn about computer environments and systems, and explore environmental issues related to computers, safe computing practices, emerging technologies, and postsecondary opportunities in computer-related fields.</p>
ICS3UR	<p>INTRODUCTION TO COMPUTER SCIENCE, GRADE 11, UNIVERSITY</p> <p>This course introduces students to computer science. Students will design software independently and as part of a team, using industry-standard programming tools and applying the software development life-cycle model. They will also write and use subprograms within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields.</p>
MEL3ER	<p>MATHEMATICS FOR WORK AND EVERYDAY LIFE, GRADE 11, WORKPLACE</p> <p>This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.</p>
MBF3CR	<p>FOUNDATIONS FOR COLLEGE MATHEMATICS, GRADE 11, COLLEGE</p> <p>This course enables students to broaden their understanding of mathematics as a problem solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analyzing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.</p>
MCF3MR	<p>FUNCTIONS AND APPLICATIONS, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modeling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.</p>
MCR3UR	<p>FUNCTIONS, GRADE 11, UNIVERSITY</p> <p>This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.</p>

NBE3UR	<p>ENGLISH: UNDERSTANDING CONTEMPORARY FIRST NATIONS, METIS, AND INUIT VOICES, GRADE 11, UNIVERSITY</p> <p>This course explores the themes, forms, and stylistic elements of a variety of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also examines the perspectives and influence of texts that relate to those cultures. In order to fully understand contemporary text forms and their themes of identity, relationship, and self-determination, sovereignty, or self-governance, students will analyze the changing use of text forms by Indigenous authors/creators from various periods and cultures in expressing ideas related to these themes. Students will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English university or college preparation course.</p>
NDA3MR	<p>CONTEMPORARY FIRST NATIONS, METIS, AND INUIT ISSUES AND PERSPECTIVES, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This course explores existing and emerging issues of local, regional, and national importance to First Nations, Métis, and Inuit in Canada. Students will analyze diverse perspectives on issues and events related to land, community, governance, identity, culture, and global trends. Using the concepts of political thinking and the tools of political inquiry, students will explore their own and others' ideas and investigate issues to determine what needs to change and why. Students are also given the opportunity to develop their own problem-solving strategies to address an issue of their choice.</p>
PAD3OI	<p>ACTIVITÉS DE PLEIN AIR, GRADE 11, OPEN, FRENCH</p> <p>This course emphasizes regular participation in a variety of outdoor and recreational activities that promotes lifelong, healthy, active living. Students will focus on skills such as leadership, responsibility, problem-solving and resourcefulness, through a variety of activity-based experiences such as snowshoeing, skiing and canoe tripping. Students will examine issues ranging from personal safety to environmental awareness.</p>
PAF3OF	<p>HEALTHY LIVING AND PERSONAL AND FITNESS ACTIVITIES, GRADE 11, OPEN, FEMALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
PAF3OM	<p>HEALTHY LIVING AND PERSONAL AND FITNESS ACTIVITIES, GRADE 11, OPEN, MALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>

PPL3OF	<p>HEALTHY ACTIVE LIVING EDUCATION, GRADE 11, OPEN, FEMALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
PPL3OM	<p>HEALTHY ACTIVE LIVING EDUCATION, GRADE 11, OPEN, MALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
PPZ3CR	<p>HEALTH FOR LIFE, GRADE 11, COLLEGE</p> <p>This course enables students to examine the factors that influence their own health practices and behaviours as well as those factors that contribute to the development of healthy communities. It emphasizes the concept of wellness, which addresses all aspects of well-being – physical, cognitive, emotional, spiritual and social – and promotes healthy eating, physical activity, and building and maintaining a positive sense of self. Students will develop the skills necessary to make healthy choices and create a personal wellness plan. They will also design initiatives that encourage others to lead healthy, active lives. The course prepares students for college programs in health sciences, fitness, wellness, and health promotion.</p>
SBI3CR	<p>BIOLOGY, GRADE 11, COLLEGE</p> <p>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.</p>
SBI3UR	<p>BIOLOGY, GRADE 11, UNIVERSITY</p> <p>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.</p>
SCH3UR	<p>CHEMISTRY, GRADE 11, UNIVERSITY</p> <p>This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gasses. 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.</p>

SVN3ER	<p>ENVIRONMENTAL SCIENCE, GRADE 11, WORKPLACE</p> <p>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.</p>
SPH3UR	<p>PHYSICS, GRADE 11, UNIVERSITY</p> <p>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.</p>
TCJ3ER	<p>CONSTRUCTION TECHNOLOGY, GRADE 11, WORKPLACE</p> <p>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, layout, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and will explore postsecondary and career opportunities in the field.</p>
TDJ3MR	<p>TECHNOLOGICAL DESIGN, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them.</p>
TFJ3ER	<p>HOSPITALITY AND TOURISM, GRADE 11, WORKPLACE</p> <p>This course enables students to acquire knowledge and skills related to the food and beverage services sector of the tourism industry. Students will learn how to prepare, present, and serve food using a variety of tools and equipment, and will develop an understanding of the fundamentals of providing high-quality service to ensure customer satisfaction and the components of running a successful event or activity. Students will develop an awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector.</p>
TGJ3MR	<p>COMMUNICATIONS TECHNOLOGY, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also develop an awareness of related environmental and societal issues, and will explore college and university programs and career opportunities in the various communications technology fields.</p>

TPJ3MR	<p>HEALTH CARE, GRADE 11, UNIVERSITY/COLLEGE</p> <p>This course enables students to develop their understanding of basic health care procedures, including the safe use of appropriate instruments, equipment, and materials. Students will focus on health care fundamentals, including the anatomical features and physiology of the major body systems and the factors that affect homeostasis in the human body. Students will develop an awareness of health and safety issues in the healthcare field, analyze environmental and societal issues related to health care, and learn about professional practice standards and career opportunities in the field.</p>
TTJ3OR	<p>TRANSPORTATION TECHNOLOGY: VEHICLE OWNERSHIP, GRADE 11, OPEN</p> <p>This general interest course enables students to become familiar with the options and features of various vehicles, issues of registration, and the legal requirements affecting vehicle owners. Students will also learn about vehicle financing and insurance, vehicle maintenance, emergency procedures, and the responsibilities of being a vehicle owner. Students will develop an awareness of environmental and societal issues related to vehicle ownership and use, and will explore career opportunities in the transportation industry.</p>
TTS3CR	<p>TRANSPORTATION TECHNOLOGY: SMALL ENGINE AND RECREATIONAL EQUIPMENT</p> <p>This course comprises four-stroke and two-stroke cycles, fuel systems, ignition systems, cooling systems, and starter units will be examined. From lawnmowers to snow blowers, chainsaws to Go-Karts, ATV's to personal watercraft—these are just a few of the hundreds of machines around us powered by small engines. This course encourages students to demonstrate safe working practices and techniques while setting up, operating, maintaining, and repairing small powered equipment.</p>
TWJ3ER	<p>CUSTOM WOODWORKING, GRADE 11, WORKPLACE</p> <p>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 will explore apprenticeships, postsecondary training, and career opportunities in the field that may be pursued directly after graduation.</p>

GRADE 12 COURSES

COURSE	DESCRIPTION
ADA4MR	<p>DRAMA, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This course requires students to experiment individually and collaboratively with forms and conventions of both drama and theater from various cultures and time periods. Students will interpret dramatic literature and other texts and media sources while learning about various theories of directing and acting. Students will examine the significance of dramatic arts in various cultures, and will analyze how the knowledge and skills developed in drama are related to their personal skills, social awareness, and goals beyond secondary school.</p>
AMG4MR	<p>MUSIC - GUITAR, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This course develops students' musical literacy through performance and the preparation and presentation of music productions. Students will perform works at a level consistent with previous experience. Independently and collaboratively, students will use current technology and the creative and critical analysis processes to plan, produce, present, and market musical productions. Students will respond to, reflect on, and analyze music from various genres and periods, and they will develop skills transferable to other aspects of their life and their careers. Chording and strumming techniques on guitar will be the main focus of performance, although sight reading standard notation and TAB will be introduced (students will be provided with an acoustic guitar).</p>
AMU4MR	<p>MUSIC, GRADE 12, UNIVERSITY/COLLEGE</p> <p>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 life and careers.</p>
AMV4MR	<p>MUSIC - VOCAL/CHORAL, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This 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. Independently and in groups, they will also plan, market, and produce music production, making use of appropriate technology, and will evaluate the results.</p>
ASM4MR	<p>MEDIA ARTS, GRADE 12, UNIVERSITY/COLLEGE</p> <p>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 works that express their views on contemporary issues and will create portfolios suitable for use in either career or postsecondary education applications. Students will critically analyze the role of media artists in shaping audience perceptions of identity, culture, and community values.</p>
AVI4MR	<p>VISUAL ARTS, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts.</p>

AWQ4MR	<p>VISUAL ARTS - PHOTOGRAPHY, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This course emphasizes the refinement of photography skills through the creation of a thematic body of work by applying traditional and emerging technologies, tools, and techniques such as photoshop, and studio equipment. Students will develop works that express their views on contemporary issues and will create portfolios suitable for use in either career or postsecondary education applications. Students will critically analyze the role of photo artists in shaping audience perceptions of identity, culture, and community values.</p>
BAT4MR	<p>FINANCIAL ACCOUNTING PRINCIPLES, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This course introduces students to advanced accounting principles that will prepare them for postsecondary studies in business. Students will learn about financial statements for various forms of business ownership and how those statements are interpreted in making business decisions. This course expands students' knowledge of sources of financing, further develops accounting methods for assets, and introduces accounting for partnerships and corporations.</p>
BOH4MR	<p>BUSINESS LEADERSHIP: MANAGEMENT FUNDAMENTALS, GRADE 12, UNIVERSITY/COLLEGE</p> <p>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 are also emphasized.</p>
CGW4CR	<p>WORLD ISSUES: A GEOGRAPHIC ANALYSIS, GRADE 12, COLLEGE</p> <p>This course explores the many difficult challenges facing Canada and the world today – challenges such as unequal access to food, water, and energy; urbanization; globalization; and meeting the needs of a growing world population while ensuring the sustainability of the natural environment. Students will explore these and other world issues from environmental, social, economic, and political perspectives, while applying the concepts of geographic thinking, the geographic inquiry process, and spatial technologies to guide and support their investigations.</p>
CGW4UR	<p>WORLD ISSUES: A GEOGRAPHIC ANALYSIS, GRADE 12, UNIVERSITY</p> <p>In this course, students will address the challenge of creating a more sustainable and equitable world. They will explore issues involving a wide range of topics, including economic disparities, threats to the environment, globalization, human rights, and quality of life, and analyze government policies, international agreements, and individual responsibilities relating to them. Students will apply the concepts of geographic thinking and the geographic inquiry process, including the use of spatial technologies, to investigate these complex issues and their impacts on natural and human communities around the world.</p>
CHY4CR	<p>WORLD HISTORY SINCE THE 15TH CENTURY, GRADE 12, COLLEGE</p> <p>This course explores key developments and events in world history since approximately 1450, with a focus on interactions within and between various regions. Students will examine social, economic, and political developments and how they have affected different peoples. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating key turning points in world history and historical forces that have shaped our world.</p>
CHY4UR	<p>WORLD HISTORY SINCE THE 15TH CENTURY, GRADE 12, UNIVERSITY</p> <p>This course traces major developments and events in world history since approximately 1450. Students will explore social, economic, and political changes, the historical roots of contemporary issues, and the role of conflict and cooperation in global interrelationships. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, as they investigate key issues and ideas and assess societal progress or decline in world history.</p>

CLN4UR	<p>CANADIAN AND INTERNATIONAL LAW, GRADE 12, UNIVERSITY</p> <p>This course explores a range of contemporary legal issues and how they are addressed in both Canadian and international law. Students will develop an understanding of the principles of Canadian and international law and of issues related to human rights and freedoms, conflict resolution, and criminal, environmental, and workplace law, both in Canada and internationally. Students will apply the concepts of legal thinking and the legal studies inquiry process, and will develop legal reasoning skills, when investigating these and other issues in both Canadian and international contexts.</p>
ENG4ER	<p>ENGLISH, GRADE 12, WORKPLACE</p> <p>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.</p>
ENG4CR	<p>ENGLISH, GRADE 12, COLLEGE</p> <p>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.</p>
ENG4UR	<p>ENGLISH, GRADE 12, UNIVERSITY</p> <p>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.</p>
EW4CR	<p>THE WRITER'S CRAFT, GRADE 12, COLLEGE</p> <p>This course emphasizes knowledge and skills related to the craft of writing. Students will investigate models of effective writing; use a workshop approach to write a variety of works; and make considered decisions for improving the quality of their writing. They will also complete a creative or analytical independent study project, and investigate opportunities for publication and for writing careers.</p>
EW4UR	<p>THE WRITER'S CRAFT, GRADE 12, UNIVERSITY</p> <p>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.</p>

FIF4UR	<p>FRENCH IMMERSION, GRADE 12, UNIVERSITY</p> <p>This course provides students with extensive opportunities to communicate, interact, and think critically and creatively in French. Students will consolidate their listening, speaking, reading, and writing skills and apply language learning strategies while communicating about concrete and abstract topics, and will independently respond to and interact with a variety of oral and written texts. Students will study a selection of French literature from the Middle Ages to the present. They will also enrich their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.</p>
FSF4UR	<p>CORE FRENCH, GRADE 12, UNIVERSITY</p> <p>This course provides extensive opportunities for students to speak and interact in French independently. Students will develop their listening, speaking, reading, and writing skills, apply language learning strategies in a wide variety of real-life situations, and develop their creative and critical thinking skills through responding to and interacting with a variety of oral and written texts. They will also enrich their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.</p>
GLE4OR	<p>ADV. LEARNING STRATEGIES: SKILLS FOR SUCCESS AFTER SECONDARY SCHOOL, GRADE 12, OPEN</p> <p>This course improves students' learning and personal-management skills, preparing them to make successful transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal-management techniques to maximize their learning. Students will investigate trends and resources to support their postsecondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals.</p>
GLN4OD	<p>TWO-CREDIT CO-OP, GRADE 12, OPEN</p> <p>This course provides students with opportunities to develop the workplace essential skills and work habits required for success in all types of workplaces. Students will explore occupations and careers of interest through participation in real workplace experiences. They will make plans for continued learning and work, work with others to design learning experiences, and investigate the resources and support required to make a smooth transition to their post- secondary destination.</p>
GLN4OQ	<p>FOUR-CREDIT CO-OP, GRADE 12, OPEN</p> <p>This course provides students with opportunities to develop the workplace essential skills and work habits required for success in all types of workplaces. Students will explore occupations and careers of interest through participation in real workplace experiences. They will make plans for continued learning and work, work with others to design learning experiences, and investigate the resources and support required to make a smooth transition to their post- secondary destination.</p>
HNB4MR	<p>THE WORLD OF FASHION, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This course gives students the opportunity to explore the world of fashion. Students will learn how to create a fashion product using various tools, techniques, and technologies while developing their practical skills. Students will learn about various factors that affect the global fashion industry, the needs of specialized markets, and the impact of fibre and fabric production and care. In addition, they will learn about social and historical influences on fashion. Students will apply research skills when investigating aspects of the fashion world.</p>

HZT4UR	<p>PHILOSOPHY: QUESTIONS AND THEORIES, GRADE 12, UNIVERSITY</p> <p>This course enables students to acquire an understanding of the nature of philosophy and philosophical reasoning skills and to develop and apply their knowledge and skills while exploring specialized branches of philosophy (the course will cover at least three of the following branches: metaphysics, ethics, epistemology, philosophy of science, social and political philosophy, aesthetics). Students will develop critical thinking and philosophical reasoning skills as they formulate and evaluate arguments related to a variety of philosophical questions and theories. They will also develop research and inquiry skills related to the study and practice of philosophy.</p>
ICS4CR	<p>COMPUTER PROGRAMMING, GRADE 12, COLLEGE</p> <p>This course further develops students' computer programming skills. Students will learn object oriented programming concepts, create object-oriented software solutions, and design graphical user interfaces. Student teams will plan and carry out a software development project using industry-standard programming tools and proper project management techniques. Students will also investigate ethical issues in computing and expand their understanding of environmental issues, emerging technologies, and computer-related careers.</p>
ICS4UR	<p>COMPUTER PROGRAMMING, GRADE 12, UNIVERSITY</p> <p>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.</p>
MAP4CR	<p>FOUNDATIONS FOR COLLEGE MATHEMATICS, GRADE 12, COLLEGE</p> <p>This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyze data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.</p>
MEL4ER	<p>MATHEMATICS FOR WORK AND EVERYDAY LIFE, GRADE 12, WORKPLACE</p> <p>This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs, create household budgets, and prepare a personal income tax return; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.</p>
MDM4UR	<p>MATHEMATICS OF DATA MANAGEMENT, GRADE 12, UNIVERSITY</p> <p>This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analyzing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.</p>

MHF4UR	<p>ADVANCED FUNCTIONS, GRADE 12, UNIVERSITY</p> <p>This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.</p>
MCV4UR	<p>CALCULUS AND VECTORS, GRADE 12, UNIVERSITY</p> <p>This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modeling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.</p>
NDW4MR	<p>CONTEMPORARY INDIGENOUS ISSUES AND PERSPECTIVES IN A GLOBAL CONTEXT, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This course examines global issues from the perspectives of Indigenous peoples. Students will explore the depth and diversity of Indigenous cultures, traditions, and knowledge. Students will consider how diverse Indigenous communities persevere despite current global environmental and economic trends, and will investigate topics such as identity, social justice, human rights, spirituality, resilience, and advocacy for change.</p>
PAF4OF	<p>HEALTHY LIVING AND PERSONAL AND FITNESS ACTIVITIES, GRADE 12, OPEN, FEMALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
PAF4OM	<p>HEALTHY LIVING AND PERSONAL AND FITNESS ACTIVITIES, GRADE 12, OPEN, MALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>

PPL4OF	<p>HEALTHY ACTIVE LIVING EDUCATION, GRADE 12, OPEN, FEMALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
PPL4OM	<p>HEALTHY ACTIVE LIVING EDUCATION, GRADE 12, OPEN, MALE</p> <p>This course enables students to further develop the knowledge and skills they need to make healthy choices. It places special emphasis on how students can maintain the habits of healthy, active living throughout their lives as they make the transition to adulthood and independent living. Through participation in a wide range of physical activities in a variety of settings, students can enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.</p>
PLF4MR	<p>RECREATION AND HEALTHY ACTIVE LIVING LEADERSHIP, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This course enables students to explore the benefits of lifelong participation in active recreation and healthy leisure and to develop the leadership and coordinating skills needed to plan, organize, and safely implement recreational events and other activities related to healthy, active living. Students will also learn how to promote the benefits of healthy, active living to others through mentoring and assisting them in making informed decisions that enhance their well-being. The course will prepare students for university programs in physical education and health and kinesiology and for college and university programs in recreation and leisure management, fitness and health promotion, and fitness leadership.</p>
PSK4UR	<p>INTRODUCTORY KINESIOLOGY, GRADE 12, UNIVERSITY</p> <p>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 sport, and the physiological, psychological, and social factors that influence an individual's participation in physical activity and sport. The course prepares students for university programs in physical education and health, kinesiology, health sciences, health studies, recreation, and sports administration.</p>
SBI4UR	<p>BIOLOGY, GRADE 12, UNIVERSITY</p> <p>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.</p>
SCH4UR	<p>CHEMISTRY, GRADE 12, UNIVERSITY</p> <p>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.</p>

SCH4CR	<p>CHEMISTRY, GRADE 12, COLLEGE</p> <p>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.</p>
SPH4UR	<p>PHYSICS, GRADE 12, UNIVERSITY</p> <p>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 related to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.</p>
TCJ4ER	<p>CONSTRUCTION TECHNOLOGY, GRADE 12, WORKPLACE</p> <p>This course enables students to further develop technical knowledge and skills related to residential construction and to explore light commercial construction. Students will continue to gain hands-on experience using a variety of materials, processes, tools, and equipment; create and interpret construction drawings; and learn more about building design and project planning. They will expand their knowledge of terminology, codes and regulations, and health and safety standards related to residential and light commercial construction. Students will also expand their awareness of environmental and societal issues related to construction technology, and will explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation.</p>
TDJ4MR	<p>TECHNOLOGICAL DESIGN, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This course introduces students to the fundamentals of design advocacy and marketing, while building on their design skills and their knowledge of professional design practices. Students will apply a systematic design process to research, design, build, and assess solutions that meet specific human needs, using illustrations, presentation drawings, and other communication methods to present their designs. Students will enhance their problem-solving and communication skills, and will explore career opportunities and the postsecondary education and training requirements for them.</p>
TFJ4ER	<p>HOSPITALITY AND TOURISM, GRADE 12, WORKPLACE</p> <p>This course enables students to further develop knowledge and skills related to the food and beverage services sector of the tourism industry. Students will demonstrate proficiency in using food preparation and presentation tools and equipment; plan nutritious menus, create recipes, and prepare and present finished food products; develop customer service skills; and explore event and activity planning. Students will expand their awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector.</p>
TGJ4MR	<p>COMMUNICATIONS TECHNOLOGY, GRADE 12, UNIVERSITY/COLLEGE</p> <p>This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. Students may work in the areas of TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology, and will investigate career opportunities and challenges in a rapidly changing technological environment.</p>

TTJ4ER	TRANSPORTATION TECHNOLOGY: VEHICLE MAINTENANCE, GRADE 12, WORKPLACE 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.
TWJ4ER	CUSTOM WOODWORKING, GRADE 12, WORKPLACE This course enables students to further develop knowledge and skills related to the planning, design, and construction of residential and/or commercial cabinets and furniture. Students will gain further experience in the safe use of common woodworking materials, tools, equipment, finishes, and hardware, and will learn about the entrepreneurial skills needed to establish and operate a custom woodworking business. Students will also expand their awareness of health and safety issues and environmental and societal issues related to woodworking, and will explore career opportunities that may be pursued directly after graduation.