	Course Name	Course Code	Type	Grade	Discipline	Prerequisites	Description	Guidance Message
1	**Course Name**	**Course Code**	**Type**	**Grade**	**Discipline**	**Prerequisites**	**Description**	**Guidance Message**
2	Instrumental Music	AMI1O	Open	9	Arts		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.	
3	Vocal Music	AMV1O	Open	9	Arts		This course introduces the student to the study of vocal music. Methods of tone production, warm-up and sight singing will accompany the repertoire studies in class. Performance will be emphasized and no previous experiences in necessary.	
4	Visual Arts	AVI1O	Open	9	Arts		This course is exploratory in nature, offering an overview of visual arts as a foundation for further study. Students will become familiar with the elements and principles of design and the expressive qualities of various materials by using a range of media, processes, techniques, and styles. Students will use the creative and critical analysis processes and will interpret art within a personal, contemporary, and historical context	
5	Information and Communication Technology in Business	BTT1O	Open	9	Business Studies		This course introduces students to information and communication technology in a business environment and builds a foundation of digital literacy skills necessary for success in a technologically driven society. Students will develop word processing, spreadsheet, database, desktop publishing, presentation software, and website design skills. Throughout the course, there is an emphasis on digital literacy, effective electronic research and communication skills, and current issues related to the impact of information and communication technology.	

	A	B	C	D	E	F	G	H
6	Issues in Canadian Geography	CGC1D	Academic	9	Canadian and World Studies		This course examines interrelationships within and between Canada's natural and human systems and how these systems interconnect with those in other parts of the world. Students will explore environmental, economic, and social geographic issues relating to topics such as transportation options, energy choices, and urban development. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate various geographic issues and to develop possible approaches for making Canada a more sustainable place in which to live.	
7	Issues in Canadian Geography - French Immersion	CGC1DF	Academic	9	Canadian and World Studies		This course examines interrelationships within and between Canada's natural and human systems and how these systems interconnect with those in other parts of the world. Students will explore environmental, economic, and social geographic issues relating to topics such as transportation options, energy choices, and urban development. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate various geographic issues and to develop possible approaches for making Canada a more sustainable place in which to live.	This is a required course for French Immersion students.
8	English	ENG1L	Locally Developed	9	English		This course is designed to develop the key oral communication, reading, writing, and media literacy skills students need for success in secondary school and daily life. Students will read, interpret, and create a variety of informational, literary, and graphic texts. An important focus will be on identifying and using appropriate strategies and processes to improve students' comprehension of texts and to help them communicate clearly and effectively. The course is intended to prepare students for the Grade 10 applied English course, which leads to college or workplace preparation courses in Grades 11 and 12.	Recommended for students struggling to pass the grade 8 Language Arts program.
9	English	ENL1W	Destreamed	9	English		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.	

	A	B	C	D	E	F	G	H
10	French Immersion	FIF1DC	Academic	9	French As A Second Language		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.	This is a required course for French Immersion students. If you choose this course you must also select French Immersion Physical Education and French Immersion Geography.
11	Core French	FSF1DC	Academic	9	French As A Second Language		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.	
12	Core French	FSF1OC	Open	9	French As A Second Language		This is an introductory course for students who have little or no knowledge of French or who have not accumulated the minimum of 600 hours of elementary Core French instruction. Students will begin to understand and speak French in guided and structured interactive settings, and will develop fundamental skills in listening, speaking, reading, and writing through discussing issues and situations that are relevant to their daily lives. Throughout the course, students will develop their awareness of diverse French-speaking communities in Canada and acquire an understanding and appreciation of these communities. They will also develop a variety of skills necessary for lifelong language learning.	

	A	B	C	D	E	F	G	H
13	Learning Strategies	GLE1OC	Open	9	Guidance and Career Education		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.	Students who are interested in this course must contact Guidance or LST for approval.
14	Learning Strategies	GLS1OC	Open	9	Guidance and Career Education		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.	
15	Exploring Family Studies	HIF1O	Open	9	Social Sciences and Humanities		This course explores, within the context of families, some of the fundamental challenges people face: how to meet basic needs, how to relate to others, how to manage resources, and how to become responsible members of society. Students will explore adolescent development and will have opportunities to develop interpersonal, decision-making, and practical skills related to daily life. They will learn about the diverse ways in which families function in Canada and will use research skills as they explore topics related to individual and family needs and resources.	
16	Oneida	LNNAO	Open	9	First Nations, Métis and Inuit Studies			
17	Ojibwe	LNOAO	Open	9	First Nations, Métis and Inuit Studies			

	A	B	C	D	E	F	G	H
18	Essential Mathematics	MAT1L	Locally Developed	9	Mathematics		This course provides students who have experienced difficulties in previous mathematics courses an opportunity obtain sufficient background and skill development to prepare them for Grade 11 and 12 Workplace Preparation courses. Whenever possible, ideas will be presented in a realistic context providing students with an opportunity to explore, organize, interpret, and use mathematical models to solve problems. Technology and manipulative materials will be used wherever appropriate.	Recommended for students struggling to pass the grade 8 Mathematics program.
19	Mathematics	MTH1W	Destreamed	9	Mathematics		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 modelling, 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.	
20	Hockey - Healthy Living and Individual and Small Group Activities	PAI1O	Open	9	Health and Physical Education			There is a course fee of approximately $400 for this course. You will be contacted with details at a later date.
21	Healthy Active Living Education - Female	PPL1OF	Open	9	Health and Physical Education		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.	

	A	B	C	D	E	F	G	H
22	Healthy Active Living Education - Male	PPL1OM	Open	9	Health and Physical Education		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.	
23	Healthy Active Living Education - French Immersion	PPL1OOF	Open	9	Health and Physical Education		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.	This is a required course for French Immersion students.
24	Science	SNC1L	Locally Developed	9	Science		This is an introductory course in science that will allow you to learn about the basic concepts involved in biology, chemistry, physics and scientific inquiry. Each of these topics explore a range of topics including life-sustaining processes in simple and complex organisms, properties of common materials, electrical circuits and science in daily life. The course is designed to help you develop your mathematical and scientific process skills and to continue developing your skills in reading, writing and oral language through practical and relevant science activities. You will be asked to design and conduct investigations related to the 4 topics of study allowing you to put your practical problem solving abilities to use and to apply your knowledge of science to everyday situations. This course will provide you with considerable knowledge in science and prepare you for the next level of study and success in everyday life. If you wish to continue study science this course prepares you for the Grade 11 Workplace Preparation course.	Recommended for students struggling to pass the grade 8 Science program.

	A	B	C	D	E	F	G	H
25	Science	SNC1W	Destreamed	9	Science		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.	
26	Exploring Technologies	TIJ1O	Open	9	Technological Education		This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the various technological areas or industries, working with a variety of tools, equipment, and software commonly used in industry. Students will develop an awareness of environmental and societal issues, and will begin to explore secondary and postsecondary education and training pathways leading to careers in technology-related fields.	
27	Drama	ADA2O	Open	10	Arts		This course provides opportunities for students to explore dramatic forms, conventions, and techniques. Students will explore a variety of dramatic sources from various cultures and representing a range of genres. Students will use the elements of drama in creating and communicating through dramatic works. Students will assume responsibility for decisions made in the creative and collaborative processes and will reflect on their experiences.	

	A	B	C	D	E	F	G	H
28	Guitar	AMG2O	Open	10	Arts		This course emphasizes performance of music at a level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history. This course is designed for the beginning guitar student who will learn how to tune the guitar, read chord charts and melodic notation, be introduced to folk, rock, pop, blues, jazz and classical styles through performance, listening, music theory and the history of the guitar.	
29	Instrumental Music	AMI2O	Open	10	Arts		This course emphasizes performance of music at an intermediate level that strikes a balance between challenge and skill. Student learning will include participating in creative activities, listening perceptively and analyzing Medieval, Baroque and contemporary music as well as music videos. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history.	
30	Music Repertoire	AMR2O	Open	10	Arts		This course emphasizes performance of music at an intermediate level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history.	This course is offered as a ninth credit for grade 10 students interested in band. Students will attend 5 mornings every 2 weeks for the entire year. Classes begin at 7:00 am. IF YOU CHOOSE THIS COURSE, YOU MUST ALSO CHOOSE AMI2O.

	A	B	C	D	E	F	G	H
31	Vocal Music	AMV2O	Open	10	Arts		This course emphasizes performance of music at a level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history. This course is designed for students who wish to study music through singing, emphasizing the fundamentals of good singing through breathing, voice production, diction and ear training.	
32	Visual Arts	AVI2O	Open	10	Arts		This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context.	
33	Introduction to Business	BBI2O	Open	10	Business Studies		This course introduces students to the world of business. Students will develop an understanding of the functions of business, including accounting, marketing, information and communication technology, human resources, and production, and of the importance of ethics and social responsibility. This course builds a foundation for further studies in business and helps students develop the business knowledge and skills they will need in their everyday lives.	

	A	B	C	D	E	F	G	H
34	Canadian History since World War I	CHC2D	Academic	10	Canadian and World Studies		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.	
35	Canadian History since World War I - French Immersion	CHC2DF	Academic	10	Canadian and World Studies		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.	This is a required course for French Immersion students.
36	Contemporary Canadian History	CHC2L	Locally Developed	10	Canadian and World Studies		This locally developed course in Canadian history provides students with the opportunity to complete the compulsory credit for history that is required to graduate. It will lead to other workplace courses at the senior level.	

	A	B	C	D	E	F	G	H
37	Canadian History since World War I	CHC2P	Applied	10	Canadian and World Studies		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.	
38	Canadian History since World War I - French Immersion	CHC2PF	Applied	10	Canadian and World Studies		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.	

	A	B	C	D	E	F	G	H
39	Civics and Citizenship	CHV2OH	Open	10	Canadian and World Studies		This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today's world and of personal interest to them.	
40	Civics and Citizenship - French Immersion	CHV2OHF	Open	10	Canadian and World Studies		This course explores rights and responsibilities associated with being an active citizen in a democratic society. Students will explore issues of civic importance such as healthy schools, community planning, environmental responsibility, and the influence of social media, while developing their understanding of the role of civic engagement and of political processes in the local, national, and/or global community. Students will apply the concepts of political thinking and the political inquiry process to investigate, and express informed opinions about, a range of political issues and developments that are both of significance in today's world and of personal interest to them.	This is a required course for French Immersion students.
41	Literacy Skills	ELS2O	Open	10	English		This course is designed to help students strengthen essential reading and writing skills, providing them with the extra literacy support they need in order to graduate. Students will read informational, graphic, and literary texts, with a focus on locating information, identifying main ideas and supporting details, building vocabulary, and consolidating skills in the application of key comprehension strategies. The course will also help students develop core learning strategies.	Students who are interested in this course must see Guidance for approval.

	A	B	C	D	E	F	G	H
42	English	ENG2D	Academic	10	English	ENG1D,ENG1P	This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyse literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.	Recommended for students achieving 70% or better in ENG1D.
43	English	ENG2L	Locally Developed	10	English	ENG1L	In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, in the English, Grade 11, Workplace Preparation course, or in the English: Contemporary Aboriginal Voices, Grade 11, Workplace Preparation course. The course is organized by strands that extend listening and talking skills, reading and viewing skills, and writing skills. In all strands, the focus is on refining foundational literacy skills and on using language clearly and accurately in a variety of authentic contexts. Students build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing, and thinking. Students reflect regularly upon their growth in these areas.	Recommended for students who passed ENG1L.
44	English	ENG2P	Applied	10	English	ENG1D,ENG1P,ENL1W	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.	

	A	B	C	D	E	F	G	H
45	French Immersion	FIF2DC	Academic	10	French As A Second Language	FIF1D,FIF1P	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 Frenchspeaking communities, and will develop skills necessary for lifelong language learning.	This is a required course for French Immersion students. If you choose this course you must also select French Immersion History and French Immersion Careers/Civics.
46	Core French	FSF2DC	Academic	10	French As A Second Language	FSF1D,FSF1P	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.	
47	Core French	FSF2PC	Applied	10	French As A Second Language	FSF1D,FSF1P	This course provides opportunities for students to communicate in French about everyday matters and topics of personal interest in real-life situations. Students will exchange information, ideas, and opinions with others in structured, guided, and increasingly spontaneous spoken interactions. Students will develop their skills in listening, speaking, reading, and writing through using language learning strategies for understanding texts and communicating clearly. They will also increase their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.	

	A	B	C	D	E	F	G	H
48	Career Studies	GLC2OH	Open	10	Guidance and Career Education		This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.	
49	Career Studies - French Immersion	GLC2OHF	Open	10	Guidance and Career Education		This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.	This is a required course for French Immersion students.
50	Learning Strategies	GLE2OC	Open	10	Guidance and Career Education		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.	Students who are interested in this course must see Guidance or LST for approval.
51	Food and Nutrition	HFN2O	Open	10	Social Sciences and Humanities		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.	

	A	B	C	D	E	F	G	H
52	Digital Technology and Innovations in the Changing World	ICD2O	Open	10	Computer Studies		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.	
53	Spanish	LWSBD	Academic	10	Classical and International Languages		This course allows students with little or no prior experience with the Spanish language to develop an appreciation for Spanish culture and values through language. Students develop the three strands: Oral Communication, Reading and Writing. Students build and apply their knowledge of Spanish while exploring a variety of themes, such as relationships, trends, careers and a global overview of the Spanish speaking people and world. Thematic readings include a selection of readers, adapted short stories, articles, magazines, texts on CD ROM's, and the Internet as stepping stones to oral and written activities.	
54	Essential Mathematics	MAT2L	Locally Developed	10	Mathematics	MAT1L,MFM1P,MPM1D, MTH1W	This course is designed to provide additional experiences in problem solving. Ideas will be presented in a realistic context providing students with an opportunity to explore, organize, interpret, and use mathematical models to solve problems. Repetition of skills and exposure to technology are key aspects of this course.	Recommended for students who passed MAT1L.
55	Foundations of Mathematics	MFM2P	Applied	10	Mathematics	MPM1D,MFM1P,MTH1W	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.	

	A	B	C	D	E	F	G	H
56	Principles of Mathematics	MPM2D	Academic	10	Mathematics	MPM1D,MTH1W	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.	Recommended for students achieving 70% or better in MPM1D.
57	Hockey - Healthy Living and Individual and Small Group Activities	PAI2O	Open	10	Health and Physical Education			There is a course fee of approximately $400 for this course. You will be contacted with details at a later date.
58	Healthy Active Living Education - Female	PPL2OF	Open	10	Health and Physical Education		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.	

	A	B	C	D	E	F	G	H
59	Healthy Active Living Education - Male	PPL2OM	Open	10	Health and Physical Education		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.	
60	Science	SNC2D	Academic	10	Science	SNC1D,SNC1P,SNC1W	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.	Recommended for students achieving 70% or better in SNC1D.
61	Science	SNC2L	Locally Developed	10	Science	SNC1W,SNC1L	This course emphasizes reinforcing and strengthening science-related knowledge and skills, includingscientific inquiry, critical thinking, and the environmental impact of science and technology, to prepare students for success in everyday life, in the workplace, and in the Grade 11 Science Workplace Preparation course. Students explore a range of topics, including science in media, interactions of common materials, interdependence of organisms in communities, and using electrical energy.	Recommended for students who passed SNC1L.

	A	B	C	D	E	F	G	H
62	Science	SNC2P	Applied	10	Science	SNC1D,SNC1P,SNC1W	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.	
63	Construction Technology	TCJ2O	Open	10	Technological Education		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.	
64	Technological Design	TDJ2O	Open	10	Technological Education		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.	

	A	B	C	D	E	F	G	H
65	Communications Technology	TGJ2O	Open	10	Technological Education		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 aware- ness 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.	
66	Manufacturing Technology	TMJ2O	Open	10	Technological Education		This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection moulding. Students will develop an awareness of environmental and societal issues related to manufacturing, and will learn about secondary and postsecondary pathways leading to careers in the industry.	
67	Robotics - Manufacturing Technology	TMJ2O8	Open	10	Technological Education		This course introduces students to the manufacturing industry by giving them an opportunity to design and fabricate products using a variety of processes, tools, and equipment. Students will learn about technical drawing, properties and preparation of materials, and manufacturing techniques. Student projects may include a robotic challenge, a design challenge, or a fabrication project involving processes such as machining, welding, vacuum forming, or injection moulding. Students will develop an awareness of environmental and societal issues related to manufacturing, and will learn about secondary and postsecondary pathways leading to careers in the industry.	

	A	B	C	D	E	F	G	H
68	Transportation Technology	TTJ2O	Open	10	Technological Education		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.	
69	Drama	ADA3M	University/College	11	Arts	ADA1O,ADA2O	This course requires students to create and perform in dramatic presentations. Students will analyse, interpret, and perform dramatic works from various cultures and time periods. Students will research various acting styles and conventions that could be used in their presentations, and analyse the functions of playwrights, directors, actors, designers, technicians, and audiences.	
70	Instrumental Music	AMI3M	University/College	11	Arts	AMI1O,AMI2O	This course emphasizes the appreciation, analysis, and performance of various kinds of music, including baroque and classical music, popular music, and Canadian and non-Western music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyse and evaluate live and recorded performances. They will continue to increase their understanding of the elements of music while developing their technical and imaginative abilities.	
71	Repertoire	AMR3M	University/College	11	Arts		This course emphasizes the appreciation, analysis, and performance of various kinds of music, including baroque and classical music, popular music, and Canadian and non-Western music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyse and evaluate live and recorded performances. They will continue to increase their understanding of the elements of music while developing their technical and imaginative abilities.	This course is offered as a ninth credit for grade 11 students interested in band. Students will attend 5 mornings every 2 weeks for the entire year. Classes begin at 7:00 am. IF YOU CHOOSE THIS COURSE, YOU MUST ALSO CHOOSE AMI3M.

	A	B	C	D	E	F	G	H
72	Vocal Music	AMV3M	University/College	11	Arts	AMV2O	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 productions, making use of appropriate technology, and will evaluate the results. This course is designed for the intermediate vocalist.	
73	Visual Arts	AVI3M	University/College	11	Arts	AVI1O,AVI2O	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).	
74	Photography	AWQ3M	University/College	11	Arts	AVI1O,AVI2O	This course provides each student with an introduction to the basic concepts of digital imaging as applied to photography. With hands-on experience using applicable technology, modern developments will be presented which have led to the present applications of digital imaging which combine traditional photographic ideas with electronic media. The student will have the opportunity to learn how to operate image manipulation software using a variety of scanning equipment, software tools and output devices by executing new assignments and applying these technologies to their photographic process.	
75	Financial Accounting Fundamentals	BAF3M	University/College	11	Business Studies		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.	

	A	B	C	D	E	F	G	H
76	eLearning - Financial Accounting Fundamentals	BAF3ML	University/College	11	eLearning		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.	
77	Entrepreneurship: The Venture	BDI3C	College	11	Business Studies		This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a school-based or student-run business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.	
78	Marketing: Goods, Services, Events	BMI3C	College	11	Business Studies		This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice.	
79	eLearning - Marketing: Goods, Services, Events	BMI3CL	College	11	eLearning		This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice.	
80	Information and Communication Technology: The Digital Environment	BTA3O	Open	11	Business Studies		This course prepares students for the digital environment. Using a hands-on approach, students will further develop information and communication technology skills through the use of common business software applications. The concept and operation of e-business will be explored, and students will design and create an e-business website. The skills developed in this course will prepare students for success in the workplace and/or postsecondary studies.	

	A	B	C	D	E	F	G	H
81	eLearning - Forces of Nature: Physical Processes and Disasters	CGF3ML	University/College	11	eLearning	CGC1D,CGC1P	In this course, students will explore physical processes related to the earth's water, land, and air. They will investigate how these processes shape the planet's natural characteristics and affect human systems, how they are involved in the creation of natural disasters, and how they influence the impacts of human disasters. Throughout the course, students will apply the concepts of geographic thinking and the geographic inquiry process and use spatial 34 technologies to analyse these processes, make predictions related to natural disasters, and assess ways of responding to them.	
82	Travel and Tourism: A Geographic Perspective	CGG3O	Open	11	Canadian and World Studies	CGC1D,CGC1P	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.	
83	eLearning - Travel and Tourism: A Geographic Perspective	CGG3OL	Open	11	eLearning	CGC1D,CGC1P	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.	

	A	B	C	D	E	F	G	H
84	American History	CHA3U	University	11	Canadian and World Studies	CHC2D,CHC2P	This course explores key aspects of the social, economic, and political development of the United States from precontact to the present. Students will examine the contributions of groups and individuals to the country's evolution and will explore the historical context of key issues, trends, and events that have had an impact on the United States, its identity and culture, and its role in the global community. 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 various forces that helped shape American history.	
85	eLearning - Origins and Citizenship: The History of a great Ethnic Group	CHE3OL	Open	11	eLearning	CHC2D,CHC2P	This course focuses on the history of people who came to Canada from a specific country or region. Students will explore historical developments and events in the group's country of origin, the factors that influenced the decision of members of this group to emigrate, their historical experiences in Canada, and their contributions to Canadian identity and heritage. Students will apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating various aspects of the group's history.	
86	World History to the End of the Fifteenth Century	CHW3M	University/College	11	Canadian and World Studies	CHC2D,CHC2P	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, 38 political, and economic structures and historical forces at work in various societies and in different historical eras.	

	A	B	C	D	E	F	G	H
87	eLearning - World History to the End of the Fifteenth Century	CHW3ML	University/College	11	eLearning	CHC2D,CHC2P	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, 38 political, and economic structures and historical forces at work in various societies and in different historical eras.	
88	Understanding Canadian Law	CLU3M	University/College	11	Canadian and World Studies	CHC2D,CHC2P	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.	
89	COOP02	COOP02	Open	11	Cooperative Education			A coop application form must be submitted before you are accepted into this course. Please see Student Services if you haven't yet received an application.
90	COOP04	COOP04	Open	11	Cooperative Education			A coop application form must be submitted before you are accepted into this course. Please see Student Services if you haven't yet received an application.

	A	B	C	D	E	F	G	H
91	Politics in Action: Making Change - French Immersion	CPC3OF	Open	11	Canadian and World Studies	CHV2O	This course enables students to develop plans for change in the local, national, and/or global community. Students will explore various issues, investigating their causes as well as their impact, and determining where change is needed, and why. They will examine the effectiveness of various problem-solving strategies used by individuals and groups that have brought about and/or are attempting to bring about political change in democratic societies. In addition, students will analyse the role and perspectives of governments and other stakeholders in relation to issues of political importance and will consider factors affecting their own and others' political engagement. Students will apply the concepts of political thinking and the political inquiry process as they investigate various issues of political importance and develop a plan of action to address a selected issue.	This is a required course for French Immersion students.
92	Media Studies	EMS3O	Open	11	English	ENG2D,ENG2P	This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analysing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.	
93	eLearning - Media Studies	EMS3OL	Open	11	eLearning	ENG2D,ENG2P	This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analysing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.	

	A	B	C	D	E	F	G	H
94	English	ENG3E	Workplace	11	English	ENG2P,ENG2L,ESLDO	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.	
95	French Immersion	FIF3UC	University	11	French As A Second Language	FIF2D	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.	This is a required course for French Immersion students. If you select this course you must also take CPC3OF and HRT3MF.
96	Core French	FSF3OC	Open	11	French As A Second Language	FSF2D,FSF2P,FSF2O	This course provides opportunities for students to speak and interact in French in real-life situations. Students will develop their ability to communicate, making connections to previous experiences and using newly acquired skills in listening, speaking, reading, and writing. They will also increase their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.	
97	Core French	FSF3UC	University	11	French As A Second Language	FSF2D,FSF2P	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.	

	A	B	C	D	E	F	G	H
98	Advanced Learning Strategies: Skills for Success After Secondary School	GLE3OC	Open	11	Guidance and Career Education		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.	Students who are interested in this course must see Guidance or LST for approval.
99	eLearning - Designing Your Future	GWL3OL	Open	11	eLearning		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.	
100	Understanding Fashion	HNC3C	College	11	Social Sciences and Humanities		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.	
101	Raising Healthy Children	HPC3O	Open	11	Social Sciences and Humanities		This course focuses on the skills and knowledge parents, guardians, and caregivers need, with particular emphasis on maternal health, pregnancy, birth, and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with them, and effectively guide their early behaviour. Students will develop their research skills through investigations related to caregiving and child rearing.	

	A	B	C	D	E	F	G	H
102	Faith and Culture: World Religions - French Immersion	HRT3MF	University/College	11	Social Sciences and Humanities		This course provides students with opportunities to explore various world religions and belief traditions. Students will develop knowledge of the terms and concepts relevant to this area of study, will examine the ways in which religions and belief traditions meet various human needs, and will learn about the relationship between belief and action. They will examine sacred writings and teachings, consider how concepts of time and place influence different religions and belief traditions, and develop research and inquiry skills related to the study of human expressions of belief.	This is a required course for French Immersion students.
103	eLearning - Introduction to Anthropology, Psychology and Sociology	HSP3CL	College	11	eLearning		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.	
104	Introduction to Anthropology, Psychology, and Sociology	HSP3U	University	11	Social Sciences and Humanities	ENG2D,CHC2D	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.	
105	eLearning - Introduction to Anthropology, Psychology, and Sociology	HSP3UL	University	11	eLearning	ENG2D,CHC2D	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.	

	A	B	C	D	E	F	G	H
106	Introduction to Computer Programming	ICS3C	College	11	Computer Studies		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.	
107	eLearning - Introduction to Computer Programming	ICS3CL	College	11	eLearning		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.	
108	Introduction to Computer Science	ICS3U	University	11	Computer Studies		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.	
109	eLearning - Introduction to Computer Science	ICS3UL	University	11	eLearning		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.	

	A	B	C	D	E	F	G	H
110	Aviation Studies	IDC3O	Open	11	Business Studies		Are you interested in a career in the aviation industry? This course will explore the history of powered flight to the present day and examine the aviation industry and career opportunities such as commercial flying, aviation business, aircraft maintenance and more. Students will have the opportunity to learn to fly in high-tech flight simulators and learning basic piloting skills. This course is open to all interested grade 11 students who are heading for apprenticeship training, college, university or the workplace. The ever-changing nature of aviation and aerospace, the complexity of supply chain dynamics, and the accelerated pace of change in the aerospace sector provide a variety of career opportunities for GECDSB students. This course combines the expectations for Interdisciplinary Studies, Grade 11, Open, with selected expectations from Business Studies (BDI3C), Canadian & World Studies: History (CHT3O), Law (CLU3E), Geography (CGF3M, CGT3O), Economics (CIE3M); Computer Science (ICS3C, ICS3U); Math (MCR3U, MCF3C); Physics (SPH3U); and Transportation Technology Light Aircraft (TTL3C)	
111	Spanish	LWSCU	University	11	Classical and International Languages	LWSBD	This course offers students opportunities to further develop their knowledge of Spanish and to enhance their communication skills. Students will use increasingly sophisticated language in a variety of activities that will enable them to speak and write with clarity and accuracy. Students will also enhance their thinking skills through the critical study of literature, and continue to explore aspects of the culture of countries where the language is spoken through a variety of print and technological resources.	
112	Foundations for College Mathematics	MBF3C	College	11	Mathematics	MFM2P,MPM2D	This course enables students to broaden their understanding of mathematics as a problem solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.	

	A	B	C	D	E	F	G	H
113	eLearning - Foundations for College Mathematics	MBF3CL	College	11	eLearning	MFM2P,MPM2D	This course enables students to broaden their understanding of mathematics as a problem solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.	
114	Functions and Applications	MCF3M	University/College	11	Mathematics	MPM2D,MFM2P	This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modelling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.	Recommended for students achieving 70% or better in MFM2P.
115	Functions	MCR3U	University	11	Mathematics	MPM2D	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.	Recommended for students achieving 70% or better in MPM2D.
116	eLearning - Functions	MCR3UL	University	11	eLearning	MPM2D	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.	

	A	B	C	D	E	F	G	H
117	Mathematics for Work and Everyday Life	MEL3E	Workplace	11	Mathematics	MPM1D,MFM1P,MAT2L, MFM2P	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.	
118	Contemporary First Nations, Métis, and Inuit Voices	NBE3C	College	11	English	ENG2D,ENG2P	This course explores themes, forms, and styles of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also looks at the perspectives and influences of texts that relate to those cultures. In order to understand contemporary text forms and their themes of identity, relationship, and selfdetermination, sovereignty, or self-governance, students will study the use of text forms by Indigenous authors/creators from other periods in expressing ideas related to these themes. Students will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English college preparation course.	

	A	B	C	D	E	F	G	H
119	Contemporary First Nations, Métis, and Inuit Voices	NBE3U	University	11	English	ENG2D	This course explores themes, forms, and stylistic elements of a variety of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also examines the perspectives and influence of texts that relate to those cultures. In order to fully understand contemporary text forms and their themes of identity, relationship, and self-determination, sovereignty, or self-governance, students will analyse the changing use of text forms by Indigenous authors/creators from various periods and cultures in expressing ideas related to these themes. Students will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English university or college preparation course.	
120	World Views and Aspirations of First Nations, Métis, and Inuit Peoples in Canada	NBV3C	College	11	First Nations, Métis and Inuit Studies	NAC2O,CHC2D,CHC2P	This course explores the diverse knowledge, world views, and aspirations that shape the actions of First Nations, Métis, and Inuit individuals and communities in Canada. Students will examine the historical and contemporary context of those beliefs, values, aspirations, and actions, including the impact of colonization and decolonization. Students will explore the factors that shape world views to develop an understanding of how acknowledging diverse cultures, values, and ways of knowing contributes to truth, reconciliation, and renewed nation-to-nation relationships. Students are also given the opportunity to develop their own problem-solving strategies to build mutual understanding related to First Nations, Métis, and Inuit world views and aspirations.	

	A	B	C	D	E	F	G	H
121	Healthy Living and Personal and Fitness Activities - Female	PAF3OF	Open	11	Health and Physical Education		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.	
122	Healthy Living and Personal and Fitness Activities - Male	PAF3OM	Open	11	Health and Physical Education		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.	
123	Hockey - Healthy Living and Individual and Small Group Activities	PAI3O	Open	11	Health and Physical Education			There is a course fee of approximately $400 for this course. You will be contacted with details at a later date.

	A	B	C	D	E	F	G	H
124	Healthy Active Living Education	PPL3O	Open	11	Health and Physical Education		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 89 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.	
125	eLearning - Health for Life	PPZ3CL	College	11	eLearning		This course enables students to examine the factors that in uence 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, tness, wellness, and health promotion.	
126	Biology	SBI3C	College	11	Science	SNC2D,SNC2P	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.	
127	Biology	SBI3U	University	11	Science	SNC2D	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.	Recommended for students achieving 70% or better in SNC2D.

	A	B	C	D	E	F	G	H
128	eLearning - Biology	SBI3UL	University	11	eLearning	SNC2D	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.	
129	Chemistry	SCH3U	University	11	Science	SNC2D	This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.	Recommended for students achieving 70% or better in SNC2D.
130	Physics	SPH3U	University	11	Science	SNC2D	This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.	Recommended for students achieving 70% or better in SNC2D.
131	eLearning - Physics	SPH3UL	University	11	eLearning	SNC2D	This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.	

	A	B	C	D	E	F	G	H
132	eLearning - Environmental Science	SVN3EL	Workplace	11	eLearning	SNC1D, SNC1P, SNC1L, SNC2L	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.	
133	Environmental Science	SVN3M	University/College	11	Science	SNC2D,SNC2P	This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.	
134	eLearning - Environmental Science	SVN3ML	University/College	11	eLearning	SNC2D,SNC2P	This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.	

	A	B	C	D	E	F	G	H
135	Construction Technology	TCJ3C	College	11	Technological Education		This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands-on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and will explore career opportunities in the field.	
136	Technological Design	TDJ3M	University/College	11	Technological Education		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.	
137	Communications Technology	TGJ3M	University/College	11	Technological Education		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.	

	A	B	C	D	E	F	G	H
138	Manufacturing Technology	TMJ3C	College	11	Technological Education		This course enables students to develop knowledge and skills through hands-on, project- based learning. Students will acquire design, fabrication, and problem-solving skills while using tools and equipment such as lathes, mills, welders, computer-aided machines, robots, and control systems. Students may have opportunities to obtain industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.	
139	Manufacturing Technology - 2 Credit	TMJ3CU	College	11	Technological Education		This course enables students to develop knowledge and skills through hands-on, project- based learning. Students will acquire design, fabrication, and problem-solving skills while using tools and equipment such as lathes, mills, welders, computer-aided machines, robots, and control systems. Students may have opportunities to obtain industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.	
140	Manufacturing Technology - 2 Credit (OYAP)	TMJ3CYU	College	11	Technological Education		This course enables students to develop knowledge and skills through hands-on, project- based learning. Students will acquire design, fabrication, and problem-solving skills while using tools and equipment such as lathes, mills, welders, computer-aided machines, robots, and control systems. Students may have opportunities to obtain industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.	
141	Manufacturing Engineering Technology: Robotics and Control Systems	TMR3M	University/College	11	Technological Education			
142	Transportation Technology	TTJ3C	College	11	Technological Education		This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, brake, and steering systems on vehicles, aircraft, and/or watercraft. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation, and will learn about apprenticeship and college programs leading to careers in the transportation industry.	

	A	B	C	D	E	F	G	H
143	Drama	ADA4M	University/College	12	Arts	ADA3M,ADA3O	This course requires students to experiment individually and collaboratively with forms and conventions of both drama and theatre from various cultures and time periods. Students will interpret dramatic literature and other texts and media sources while learning about various theories of directing and acting. Students will examine the significance of dramatic arts in various cultures, and will analyse how the knowledge and skills developed in drama are related to their personal skills, social awareness, and goals beyond secondary school.	
144	Instrumental Music	AMI4M	University/College	12	Arts	AMI3M	This course emphasizes the appreciation, analysis, and performance of music from the romantic period and the twentieth century, including art music, jazz, popular music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects.	
145	Repertoire	AMR4M	University/College	12	Arts		This course emphasizes the appreciation, analysis, and performance of music from the romantic period and from the twentieth century, including art music, jazz, popular music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects.	This course is offered as a ninth credit for grade 12 students interested in band. Students will attend 5 mornings every 2 weeks for the entire year. Classes begin at 7:00 am. IF YOU CHOOSE THIS COURSE, YOU MUST ALSO CHOOSE AMI4M.
146	Vocal Music	AMV4M	University/College	12	Arts	AMV3M	This course emphasizes the appreciation, analysis, and performance of music from the romantic period and from the twentieth century, including jazz, popular music, art music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects in which they make use of new technologies. This course is designed for the intermediate vocalist.	

	A	B	C	D	E	F	G	H
147	Visual Arts	AVI4M	University/College	12	Arts	AVI3M,AVI3O	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.	
148	Advanced Photography	AWQ4M	University/College	12	Arts	AWQ3M,AVI3M	This course will focus on the refinement of skills and knowledge in photography. Students will analyse different photographic art forms and increase their understanding of changes in Western and Canadian Art and art form from around the world. Students will produce a portfolio that highlights their skill in photography as a visual art form. Emphasis will be on the demonstration of a personal style and approach to photography. Emphasis will also be placed on the different forms of photography; traditional and digital through thematic work to reflect a mastery of technique and skill.	
149	Financial Accounting Principles	BAT4M	University/College	12	Business Studies	BAF3M	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.	
150	eLearning - International Business Fundamentals	BBB4ML	University/College	12	eLearning		This course provides an overview of the importance of international business and trade in the global economy and explores the factors that influence success in international markets. Students will learn about the techniques and strategies associated with marketing, distribution, and managing international business effectively. This course prepares students for postsecondary programs in business, including international business, marketing, and management.	

	A	B	C	D	E	F	G	H
151	Business Leadership: Management Fundamentals	BOH4M	University/College	12	Business Studies		This course focuses on the development of leadership skills used in managing a successful business. Students will analyse the role of a leader in business, with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility are also emphasized.	
152	eLearning - Business Leadership: Management Fundamentals	BOH4ML	University/College	12	eLearning		This course focuses on the development of leadership skills used in managing a successful business. Students will analyse the role of a leader in business, with a focus on decision making, management of group dynamics, workplace stress and conflict, motivation of employees, and planning. Effective business communication skills, ethics, and social responsibility are also emphasized.	
153	eLearning - The Environment and Resource Management	CGR4ML	University/College	12	eLearning	CIE3M, CGD3M, CGF3M, CHA3U, CHW3M, CLU3M, CIA4U, CGW4U, CGU4M, CGR4M, CGO4M, CHI4U, CHY4U, CLN4U, CPW4U, ENG3U, ENG3C, ENG4U, ENG4C, HNB4M, HFC3M, HFA4U, HHS4U, HHG4M, HSP3U, HSB4U, HZB3M, HZT4U, HRT3M, HSE4M, HSG3M, HSC4M, CGW4C, CHY4C, CLN4C, HNC3C, HFA4C, HHS4C, HPW3C, HPD4C, HSP3C	This course investigates interactions between natural and human systems, with a particular emphasis on the impacts of human activity on ecosystems and natural processes. Students will use the geographic inquiry process, apply the concepts of geographic thinking, and employ a variety of spatial skills and technologies to analyse these impacts and propose ways of reducing them. In the course of their investigations, they will assess resource management and sustainability practices, as well as related government policies and international accords. They will also consider questions of individual responsibility and environmental stewardship as they explore ways of developing a more sustainable relationship with the environment.	
154	World Issues: A Geographic Analysis	CGW4U	University	12	Canadian and World Studies	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG4U,HNB4M,HFC3M,HFA4U,HHS4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,NBE3U	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 analyse 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.	

	A	B	C	D	E	F	G	H
155	eLearning - World Issues: A Geographic Analysis	CGW4UL	University	12	eLearning	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG4U,HNB4M,HFC3M,HFA4U,HHS4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,NBE3U	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 analyse 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.	
156	eLearning - Canada: History Identity and Culture	CHI4UL	University	12	eLearning	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG4U,HNB4M,HFC3M,HFA4U,HHS4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,NBE3U	This course traces the history of Canada, with a focus on the evolution of our national identity and culture as well as the identity and culture of various groups that make up Canada. Students will explore various developments and events, both national and international, from precontact to the present, and will examine various communities in Canada and how they have contributed to the development of identity and heritage in Canada. Students will investigate the development of culture and identity, including national identity, in Canada and how and why they have changed throughout the country's history. 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 the people, events, and forces that have shaped Canada.	
157	Adventures in World History	CHM4E	Workplace	12	Canadian and World Studies	CHC2D,CHC2P,CHC2L	This course examines significant developments and events in world history from earliest times to the present. Students will explore a variety of social, cultural, economic, and political developments in different regions of the world and during different periods. In addition to investigating how conflict, religion, work, and technology have helped shape people's lives, students will examine the contributions of some significant individuals to our global heritage. Students will apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating a variety of human experiences in world history.	

	A	B	C	D	E	F	G	H
158	World History since the Fifteenth Century	CHY4U	University	12	Canadian and World Studies	CIE3M, CGD3M, CGF3M, CHA3U, CHW3M, CLU3M, CIA4U, CGW4U, CGU4M, CGR4M, CGO4M, CHI4U, CHY4U, CLN4U, CPW4U, ENG3U, ENG4U, HNB4M, HFC3M, HFA4U, HHS4U, HHG4M, HSP3U, HSB4U, HZB3M, HZT4U, HRT3M, HSE4M, HSG3M, HSC4M	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.	
159	eLearning - World History since the Fifteenth Century	CHY4UL	University	12	eLearning	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG4U,HNB4M,HFC3M,HFA4U,HHS4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M	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.	
160	Analysing Current Economic Issues	CIA4U	University	12	Canadian and World Studies	CIE3M, CGD3M, CGF3M, CHA3U, CHW3M, CLU3M, CIA4U, CGW4U, CGU4M, CGR4M, CGO4M, CHI4U, CHY4U, CLN4U, CPW4U, ENG3U, ENG4U, HNB4M, HFC3M, HFA4U, HHS4U, HHG4M, HSP3U, HSB4U, HZB3M, HZT4U, HRT3M, HSE4M, HSG3M, HSC4M	This course examines current Canadian and international economic issues, developments, policies, and practices from diverse perspectives. Students will explore the decisions that individuals and institutions, including governments, make in response to economic issues such as globalization, trade agreements, economic inequalities, regulation, and public spending. Students will apply the concepts of economic thinking and the economic inquiry process, as well as economic models and theories, to investigate, and develop informed opinions about, economic trade-offs, growth, and sustainability and related economic issues.	

	A	B	C	D	E	F	G	H
161	eLearning - Analysing Current Economic Issues	CIA4UL	University	12	eLearning	CIE3M, CGD3M, CGF3M, CHA3U, CHW3M, CLU3M, CIA4U, CGW4U, CGU4M, CGR4M, CGO4M, CHI4U, CHY4U, CLN4U, CPW4U, ENG3U, ENG4U, HNB4M, HFC3M, HFA4U, HHS4U, HHG4M, HSP3U, HSB4U, HZB3M, HZT4U, HRT3M, HSE4M, HSG3M, HSC4M	This course examines current Canadian and international economic issues, developments, policies, and practices from diverse perspectives. Students will explore the decisions that individuals and institutions, including governments, make in response to economic issues such as globalization, trade agreements, economic inequalities, regulation, and public spending. Students will apply the concepts of economic thinking and the economic inquiry process, as well as economic models and theories, to investigate, and develop informed opinions about, economic trade-offs, growth, and sustainability and related economic issues.	
162	eLearning - Making Personal Economic Choices	CIC4EL	Workplace	12	eLearning	CHC2D,CHC2P	This course provides students with a fundamental understanding of a variety of key economic issues and practices, helping them develop their ability to make informed economic choices in their day-to-day lives. Students will examine practical financial matters, such as personal budgeting, taxes, credit and debt, and savings and investment, as well as various economic issues, such as those related to the underground economy, economic inequality, and consumer behaviour. Students will apply the concepts of economic thinking, the economic inquiry process, and economic models to investigate various economic issues and structures and to analyse the impact of economic decisions, including their own decisions, at the individual, community, and national levels.	
163	Legal Studies	CLN4C	College	12	Canadian and World Studies	CHV2O	This course provides a foundation for students who wish to pursue a career that requires an understanding of law. Students will explore the importance of law, analysing contemporary legal issues and their relevance to daily life. They will investigate the requirements for various law-related careers as well as legal responsibilities in the workplace. Students will apply the concepts of legal thinking and the legal studies inquiry process to investigate their rights and responsibilities, legal processes and structures, and the role of law in a changing society.	

	A	B	C	D	E	F	G	H
164	Canadian and International Law	CLN4U	University	12	Canadian and World Studies	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG4U,HNB4M,HFC3M,HFA4U,HHS4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,NBE3U	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.	
165	English	ENG4C	College	12	English	ENG3C,ENG3U,NBE3C,NBE3U	This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace.	
166	English	ENG4E	Workplace	12	English	ENG3E,ESLDO,NBE3E	This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyse informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.	

	A	B	C	D	E	F	G	H
167	English	ENG4U	University	12	English	ENG3U,NBE3U	This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace.	Recommended for students achieving 70% or better in ENG3U.
168	eLearning - English	ENG4UL	University	12	eLearning	ENG3U,NBE3U	This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace.	
169	The Writer's Craft	EWC4U	University	12	English	ENG3U,NBE3U	This course emphasizes knowledge and skills related to the craft of writing. Students will analyse models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project, and investigate opportunities for publication and for writing careers.	Recommended for students achieving 70% or better in NBE3U.
170	eLearning - Writers Craft	EWC4UL	University	12	eLearning	ENG3U,NBE3U	This course emphasizes knowledge and skills related to the craft of writing. Students will analyse models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project, and investigate opportunities for publication and for writing careers.	

	A	B	C	D	E	F	G	H
171	French Immersion	FIF4UC	University	12	French As A Second Language	FIF3U	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.	This is a required course for French Immersion students.
172	Core French	FSF4OC	Open	12	French As A Second Language	FSF3O	This course provides a variety of opportunities for students to speak and interact in French. Students will develop their listening, speaking, reading, and writing skills, use languagelearning strategies in a variety of real-life situations and personally relevant contexts, and develop their creative and critical thinking skills through responding to and interacting with 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.	
173	Core French	FSF4UC	University	12	French As A Second Language	FSF3U	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.	
174	eLearning - Core French	FSF4UL	University	12	eLearning	FSF3U	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.	

	A	B	C	D	E	F	G	H
175	Advanced Learning Strategies: Skills for Success After Secondary School	GLE4OC	Open	12	Guidance and Career Education		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.	Students who are interested in this course must see Guidance or LST for approval.
176	Advanced Learning Strategies: Skills for Success After Secondary School	GLS4O	Open	12	Guidance and Career Education		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.	
177	eLearning - Advanced Learning Strategies: Skills for Success After Secondary Sch	GLS4OL	Open	12	eLearning		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.	

	A	B	C	D	E	F	G	H
178	Nutrition and Health	HFA4C	College	12	Social Sciences and Humanities	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG3C,ENG4U,ENG4C,HNB4M,HFC3M,HFA4U,HHS4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,CGW4C,CHY4C,CLN4C,HNC3C,HHS4C,HPW3C,HPD4C,HSP3C,NBE3U,NBE3C,NBE3E	This course focuses on the relationship between nutrition and health at different stages of life and on global issues related to food production. Students will investigate the role of nutrition in health and disease and assess strategies for promoting food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and refine their ability to use social science research and inquiry methods to investigate topics related to nutrition and health.	
179	Nutrition and Health - French Immersion	HFA4CF	College	12	Social Sciences and Humanities	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG3C,ENG4U,ENG4C,HNB4M,HFC3M,HFA4U,HHS4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,CGW4C,CHY4C,CLN4C,HNC3C,HHS4C,HPW3C,HPD4C,HSP3C,NBE3U,NBE3C,NBE3E	This course focuses on the relationship between nutrition and health at different stages of life and on global issues related to food production. Students will investigate the role of nutrition in health and disease and assess strategies for promoting food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and refine their ability to use social science research and inquiry methods to investigate topics related to nutrition and health.	
180	Nutrition and Health - French Immersion	HFA4UF	University	12	Social Sciences and Humanities	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG4U,HNB4M,HFC3M,HHS4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,NBE3U,NBE3C	This course examines the relationships between food, energy balance, and nutritional status; the nutritional needs of individuals at different stages of life; and the role of nutrition in health and disease. Students will evaluate nutrition-related trends and will determine how food choices can promote food security and environmental responsibility. Students will learn about healthy eating, expand their repertoire of food-preparation techniques, and develop their social science research skills by investigating issues related to nutrition and health.	

	A	B	C	D	E	F	G	H
181	eLearning - Human Development Throughout the Lifespan	HHG4ML	University/College	12	eLearning	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG3C,ENG4U,ENG4C,HNB4M,HFC3M,HFA4U,HHS4U,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,CGW4C,CHY4C,CLN4C,HNC3C,HFA4C,HHS4C,HPW3C,HPD4C,HSP3C	This course offers a multidisciplinary approach to the study of human development throughout the lifespan. Students will learn about a range of theoretical perspectives on human development. They will examine threats to healthy development as well as protective factors that promote resilience. Students will learn about physical, cognitive, and social-emotional development from the prenatal period through old age and will develop their research and inquiry skills by investigating issues related to human development.	
182	Families in Canada	HHS4C	College	12	Social Sciences and Humanities	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG3C,ENG4U,ENG4C,HNB4M,HFC3M,HFA4U,HHS4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,CGW4C,CHY4C,CLN4C,HNC3C,HFA4C,HPW3C,HPD4C,HSP3C,NBE3U,NBE3C,NBE3E	This course enables students to develop an understanding of social science theories as they apply to individual development, the development of intimate relationships, and family and parent-child relationships. Students will explore a range of issues relating to the development of individuals and families in contemporary Canadian society as well as in other cultures and historical periods. They will develop the investigative skills required to conduct research on individuals, intimate relationships, and parent-child roles and relationships in Canada.	
183	eLearning - Families in Canada	HHS4CL	College	12	eLearning	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,ENG3U,ENG3C,HFC3M,HSP3U,HZB3M,HRT3M,HSG3M,HNC3C,HPW3C,HSP3C,NBE3U,NBE3C,NBE3E	This course enables students to develop an understanding of social science theories as they apply to individual development, the development of intimate relationships, and family and parent-child relationships. Students will explore a range of issues relating to the development of individuals and families in contemporary Canadian society as well as in other cultures and historical periods. They will develop the investigative skills required to conduct research on individuals, intimate relationships, and parent-child roles and relationships in Canada.	

	A	B	C	D	E	F	G	H
184	Families in Canada	HHS4U	University	12	Social Sciences and Humanities	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG4U,HNB4M,HFC3M,HFA4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,NBE3U,NBE3C	This course enables students to draw on sociological, psychological, and anthropological theories and research to analyse the development of individuals, intimate relationships, and family and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. They will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. They will develop the investigative skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships.	
185	eLearning - Families in Canada	HHS4UL	University	12	eLearning	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,ENG3U,HFC3M,HSP3U,HZB3M,HRT3M,HSG3M,NBE3U	This course enables students to draw on sociological, psychological, and anthropological theories and research to analyse the development of individuals, intimate relationships, and family and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. They will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. They will develop the investigative skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships.	
186	Personal Life Management	HIP4O	Open	12	Social Sciences and Humanities		This course focuses on preparing students for living independently and working successfully with others. Students will learn to manage their personal resources to meet their basic needs for food, clothing, and housing. They will also learn about their personal, legal, and financial responsibilities and develop and apply interpersonal skills in order to make wise and responsible personal and occupational choices. Students will apply research and inquiry skills while investigating topics related to personal life management. The course emphasizes the achievement of expectations through practical experiences.	

	A	B	C	D	E	F	G	H
187	eLearning - Personal Life Management	HIP4OL	Open	12	eLearning		This course focuses on preparing students for living independently and working successfully with others. Students will learn to manage their personal resources to meet their basic needs for food, clothing, and housing. They will also learn about their personal, legal, and financial responsibilities and develop and apply interpersonal skills in order to make wise and responsible personal and occupational choices. Students will apply research and inquiry skills while investigating topics related to personal life management. The course emphasizes the achievement of expectations through practical experiences.	
188	The World of Fashion	HNB4M	University/College	12	Social Sciences and Humanities	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG3C,ENG4U,ENG4C,HFC3M,HFA4U,HHS4U,HHG4M,HSP3U,HSB4U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,CGW4C,CHY4C,CLN4C,HNC3C,HFA4C,HHS4C,HPW3C,HPD4C,HSP3C	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.	
189	Challenge and Change in Society	HSB4U	University	12	Social Sciences and Humanities	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,CIA4U,CGW4U,CGU4M,CGR4M,CGO4M,CHI4U,CHY4U,CLN4U,CPW4U,ENG3U,ENG4U,HNB4M,HFC3M,HFA4U,HHS4U,HHG4M,HSP3U,HZB3M,HZT4U,HRT3M,HSE4M,HSG3M,HSC4M,NBE3U,NBE3C	This course focuses on the use of social science theories, perspectives, and methodologies to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour and their impact on society. Students will critically analyse how and why cultural, social, and behavioural patterns change over time. They will explore the ideas of social theorists and use those ideas to analyse causes of and responses to challenges such as technological change, deviance, and global inequalities. Students will explore ways in which social science research methods can be used to study social change.	

	A	B	C	D	E	F	G	H
190	eLearning - Challenge and Change in Society	HSB4UL	University	12	eLearning	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,ENG3U,ENG3C,HFC3M,HSP3U,HZB3M,HRT3M,HSG3M,HNC3C,HPW3C,HSP3C,NBE3U,NBE3C,NBE3E	This course focuses on the use of social science theories, perspectives, and methodologies to investigate and explain shifts in knowledge, attitudes, beliefs, and behaviour and their impact on society. Students will critically analyse how and why cultural, social, and behavioural patterns change over time. They will explore the ideas of social theorists and use those ideas to analyse causes of and responses to challenges such as technological change, deviance, and global inequalities. Students will explore ways in which social science research methods can be used to study social change.	
191	eLearning - Philosophy: Questions and Theories	HZT4UL	University	12	eLearning	CIE3M,CGD3M,CGF3M,CHA3U,CHW3M,CLU3M,ENG3U,HFC3M,HSP3U,HZB3M,HRT3M,HSG3M,NBE3U	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.	
192	Computer Programming	ICS4C	College	12	Computer Studies	ICS3C,ICS3U	This course further develops students' computer programming skills. Students will learn objectoriented 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.	
193	eLearning - Computer Programming	ICS4CL	College	12	eLearning	ICS3C	This course further develops students' computer programming skills. Students will learn objectoriented 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.	

	A	B	C	D	E	F	G	H
194	Computer Science	ICS4U	University	12	Computer Studies	ICS3U	This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyse algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.	
195	eLearning - Computer Science	ICS4UL	University	12	eLearning	ICS3U	This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyse algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.	
196	Interdisciplinary Studies - Finance	IDC4U	University	12	Business Studies	ADA3M,ADA4M,ADP3M, ADP3MZ,ADP4M,AMI3M 1,AMI4M,AMK3M,AMR4 M,AMV3M,AMV4M,ATC3 M,ATC4M,AVI3M,AVI4M, AWD3M,AWD4M,AWQ3 M,AWE4M,AWQ4M,BAF 3M,BAT4M,BBB4M,BOH4 M,CGW4U,CHI4U,CHW3 M,CHY4U,CIA4U,CIE3M,C LN4U,CLU3M,ENG3U,EN G4U,ETS4U,FSF3U,FSF4U, HFA4U,HFC3M,HHG4M,H SE4M,HSP3U,HZB3M,HZT 4U,ICS3U,ICS4U,IDC4U2, MCF3M,MCR3U,MCV4U, MDM4U,MHF4U,SBI3U,S BI4U,SCH3U1,SCH4U,SNC 4M,SPH3U,SPH4U,SVN3 M,TDJ3M,TDJ4M,TEJ3M, TEJ4M,TGJ3M,TGJ4M	This course will help students develop and consolidate the skills required for and knowledge of different subjects and disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject or discipline. Students will apply the principles and processes of inquiry and research to effectively use a range of print, electronic, and mass media resources; to analyse historical innovations and exemplary research; and to investigate real-life situations and career opportunities in interdisciplinary endeavours. They will also assess their own cognitive and affective strategies, apply general skills in both familiar and new contexts, create innovative products, and communicate new knowledge.	

	A	B	C	D	E	F	G	H
197	Spanish	LWSDU	University	12	Classical and International Languages	LWSCU	This course prepares students for university studies in Spanish. Students will enhance their ability to use the language with clarity and precision, and will develop the language skill needed to engage in sustained conversations and discussions, understand and evaluate information, read diverse materials for both study and pleasure, and write clearly and effectively. Students will also have opportunities to add to their knowledge of the culture of countries where the language is spoken through the use of community resources and computer technology.	
198	Foundations for College Mathematics	MAP4C	College	12	Mathematics	MBF3C,MCF3M,MCR3U	This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.	
199	eLearning - Foundations for College Mathematics	MAP4CL	College	12	eLearning	MBF3C,MCF3M	This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.	

	A	B	C	D	E	F	G	H
200	Mathematics for College Technology	MCT4C	College	12	Mathematics	MCF3M,MCR3U	This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve mult	
201	eLearning - Mathematics for College Technology	MCT4CL	College	12	eLearning	MCF3M,MCR3U	This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve mult	
202	Calculus and Vectors	MCV4U	University	12	Mathematics		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 threedimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.	Recommended for students achieving 70% or better in MCR3U.

	A	B	C	D	E	F	G	H
203	eLearning - Calculus and Vectors	MCV4UL	University	12	eLearning		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 threedimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.	
204	Mathematics of Data Management	MDM4U	University	12	Mathematics	MCR3U,MCF3M	This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analysing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.	Recommended for students achieving 70% or better in MCR3U or MCF3M.
205	eLearning - Mathematics of Data Management	MDM4UL	University	12	eLearning	MCR3U,MCF3M	This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analysing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.	

	A	B	C	D	E	F	G	H
206	Mathematics for Work and Everyday Life	MEL4E	Workplace	12	Mathematics	MEL3E	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.	
207	Advanced Functions	MHF4U	University	12	Mathematics	MCR3U,MCT4C	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.	Recommended for students achieving 70% or better in MCR3U.
208	eLearning - Advanced Functions	MHF4UL	University	12	eLearning	MCR3U,MCT4C	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.	

	A	B	C	D	E	F	G	H
209	Ontario Secondary School Literacy Course	OLC4O	Open		12 English		This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.	
210	eLearning - Ontario Secondary School Literacy Course	OLC4OL	Open		12 eLearning		This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.	
211	Healthy Living and Personal and Fitness Activities - Female	PAF4OF	Open		12 Health and Physical Education		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 heir 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, ersonal 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.	

	A	B	C	D	E	F	G	H
212	Healthy Living and Personal and Fitness Activities - Male	PAF4OM	Open	12	Health and Physical Education		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 heir 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, ersonal 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.	
213	Hockey - Healthy Living and Individual and Small Group Activities	PAI4O	Open	12	Health and Physical Education			There is a course fee of approximately $400 for this course. You will be contacted with details at a later date.
214	Recreation and Healthy Active Living Leadership	PLF4M	University/College	12	Health and Physical Education		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.	*** You must apply through Guidance. Pick up an Application and submit by February 16th to be considered. ****

	A	B	C	D	E	F	G	H
215	Healthy Active Living Education	PPL4O	Open	12	Health and Physical Education		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	
216	Introductory Kinesiology	PSK4U	University	12	Health and Physical Education	SBI3U,SCH3U,SPH3U,SNC3M,PPL3O,PPZ3C,PPL4O	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.	
217	eLearning - Introductory Kinesiology	PSK4UL	University	12	eLearning	SBI3U,SCH3U,SPH3U,SNC3M,PPL3O,PPZ3C,PPL4O	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.	

	A	B	C	D	E	F	G	H
218	Biology	SBI4U	University	12	Science	SBI3U	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.	Recommended for students achieving 70% or better in SBI3U.
219	eLearning - Biology	SBI4UL	University	12	eLearning	SBI3U	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.	
220	Chemistry	SCH4C	College	12	Science	SNC2D,SNC2P	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.	
221	eLearning - Chemistry	SCH4CL	College	12	eLearning	SNC2D,SNC2P	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.	

	A	B	C	D	E	F	G	H
222	Chemistry	SCH4U	University	12	Science	SCH3U	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.	Recommended for students achieving 70% or better in SCH3U.
223	eLearning - Chemistry	SCH4UL	University	12	eLearning	SCH3U	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.	
224	eLearning - Earth and Space Science	SES4UL	University	12	eLearning	SNC2D	This course develops students' understanding of Earth and its place in the universe. Students will investigate the properties of and forces in the universe and solar system and analyse techniques scientists use to generate knowledge about them. Students will closely examine the materials of Earth, its internal and surficial processes, and its geological history, and will learn how Earth's systems interact and how they have changed over time. Throughout the course, students will learn how these forces, processes, and materials affect their daily lives. The course draws on biology, chemistry, physics, and mathematics in its consideration of geological and astronomical processes that can be observed directly or inferred from other evidence.	

	A	B	C	D	E	F	G	H
225	Physics	SPH4C	College	12	Science	SNC2D,SNC2P	This course develops students' understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.	
226	eLearning - Physics	SPH4CL	College	12	eLearning	SNC2D,SNC2P	This course develops students' understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.	
227	Physics	SPH4U	University	12	Science	SPH3U	This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data related to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.	Recommended for students achieving 70% or better in SPH3U.

	A	B	C	D	E	F	G	H
228	eLearning - Physics	SPH4UL	University	12	eLearning	SPH3U	This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyse, qualitatively and quantitatively, data related to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.	
229	Construction Technology	TCJ4C	College	12	Technological Education	TCJ3C	This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands-on experience using a variety of materials, processes, tools, and equipment, and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. Students will also focus on environmental and societal issues related to construction engineering technology, and will explore career opportunities in the field.	
230	Technological Design	TDJ4M	University/College	12	Technological Education	TDJ3M	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.	

	A	B	C	D	E	F	G	H
231	Communications Technology	TGJ4M	University/College	12	Technological Education	TGJ3M	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.	
232	Manufacturing Technology	TMJ4C	College	12	Technological Education	TMJ3C	This course is offered as of September 2009 This course enables students to further develop knowledge and skills related to machining, welding, print reading, computer numerical control (CNC), robotics, and design. Students will develop proficiency in using mechanical, pneumatic, electronic, and computer control systems in a project-based learning environment and may have opportunities to obtain industry-standard training and certification. Students will expand their awareness of environmental and societal issues and career opportunities in the manufacturing industry.	
233	Manufacturing Technology - 2 Credit	TMJ4CU	College	12	Technological Education	TMJ3C	This course is offered as of September 2009 This course enables students to further develop knowledge and skills related to machining, welding, print reading, computer numerical control (CNC), robotics, and design. Students will develop proficiency in using mechanical, pneumatic, electronic, and computer control systems in a project-based learning environment and may have opportunities to obtain industry-standard training and certification. Students will expand their awareness of environmental and societal issues and career opportunities in the manufacturing industry.	

	A	B	C	D	E	F	G	H
234	Manufacturing Technology - 2 Credit (OYAP)	TMJ4CYU	College	12	Technological Education	TMJ3C	This course is offered as of September 2009 This course enables students to further develop knowledge and skills related to machining, welding, print reading, computer numerical control (CNC), robotics, and design. Students will develop proficiency in using mechanical, pneumatic, electronic, and computer control systems in a project-based learning environment and may have opportunities to obtain industry-standard training and certification. Students will expand their awareness of environmental and societal issues and career opportunities in the manufacturing industry.	
235	Manufacturing Engineering Technology: Robotics and Control Systems	TMR4M	University/College	12	Technological Education	TMR3M		
236	Transportation Technology	TTJ4C	College	12	Technological Education	TTJ3C	This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; powertrains; steering/control, suspension, brake, and body systems on vehicles, aircraft, and/or watercraft; and/or small- engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry.	