
Course **Department****AMS30** **Arts****Course Name**

Media Arts, Grade 11, Open Level (1.0 credit)

Description

This course enables students to create media art works using available and emerging technologies such as computer animation, digital imaging, video, and a variety of media. Students will explore the elements and principles of media arts, the connections between contemporary media art works and traditional art forms, and the importance of using responsible practices when engaged in the creative process. Students will develop the skills necessary to create and interpret media art works. Prerequisite: None

Course **Department****BBB4M1** **Business****Course Name**

International Business Fundamentals, Grade 12, University/College Preparation (1.0 credit)

Description

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. Prerequisite: None

Course **Department****BDI3C1** **Business****Course Name**

Entrepreneurship: The Venture, Grade 11 College Preparation (1.0 credit)

Description

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

Course **Department****BOH4M1** **Business****Course Name**

Business Leadership: Management Fundamentals, Grade 12, University/College Preparation (1.0 credit)

Description

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. Prerequisite: None

Course	Department
CGG3O1	Canadian & World Studies

Course Name

Travel and Tourism, Grade 11, Open Level (1.0 credit)

Description

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.

Prerequisite: CGC1D or CGC1P

Course	Department
CGR4M1	Canadian & World Studies

Course Name

The Environment and Resource Management, Grade 12 University/College Preparation (1.0 credit)

Description

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. Prerequisite: Any university, university/college, or college preparation course in Canadian and world studies, English, or social sciences and humanities.

Course	Department
CGW4C1	Canadian & World Studies

Course Name

World Issues: A Geographic Analysis, Grade 12, College Preparation (1.0 credit)

Description

This course explores many difficult challenges facing Canada and the world today – challenges such as unequal access to food, water, and energy; urbanization; globalization; and meeting the needs of a growing world population while ensuring the sustainability of the natural environment. Students will explore these and other world issues from environmental, social, economic, and political perspectives, while applying the concepts of geographic thinking, the geographic inquiry process, and spatial technologies to guide and support their investigations. Prerequisite: Issues in Canadian Geography, Grade 9, Academic or Applied

Course	Department
CGW4U1	Canadian & World Studies

Course Name

World Issues: A Geographic Analysis, Grade 12, University Preparation (1.0 credit)

Description

This course explores many difficult challenges facing Canada & the world today – challenges such as unequal access to food, water & energy; urbanization; globalization; & meeting the needs of a growing world population while ensuring the sustainability of the natural environment. Students will explore these & other world issues from environmental, social, economic, and political perspectives, while applying the concepts of geographic thinking, the geographic inquiry process, and spatial technologies to guide and support their investigations. Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

Course	Department
CHC2D1	Canadian & World Studies

Course Name

Canadian History since World War I, Grade 10, Academic (1.0 credit)

Description

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. Prerequisite: None

Course	Department
CHC2P1	Canadian & World Studies

Course Name

Canadian History since World War I, Grade 10, Applied (1.0 credit)

Description

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. Prerequisite: None

Course	Department
CHC2L1	Canadian & World Studies

Course Name

Canadian History since World War I, Grade 10, Locally Developed (1.0 credit)

Description

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

Course	Department
CHV2O1/GLC2O1	Canadian & World Studies/Guidance

Course Name

Civics and Citizenship/Career Studies, Gade 10 Open Level (two 0.5 credits = 1.0 credit)

Description

The Civics 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. Prerequisite: None

The Careers course gives students the opportunity to develop the skills, knowledge, and habits that will support them in their education and career/life planning. Students will learn about global work trends and seek opportunities within the school and community to expand and strengthen their transferable skills and their ability to adapt to the changing world of work. On the basis of exploration, reflective practice, and decision-making processes, students will make connections between their skills, interests, and values and their postsecondary options, whether in apprenticeship training, college, community living, university, or the workplace. They will set goals and create a plan for their first postsecondary year. As part of their preparation for the future, they will learn about personal financial management – including the variety of saving and borrowing tools available to them and how to use them to their advantage – and develop a budget for their first year after secondary school. Prerequisite: None

Course	Department
CHW3M1	Canadian & World Studies

Course Name

World History to the End of the Fifteenth Century, Grade 11, University/College Preparation (1.0 credit)

Description

This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras. Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied

Course	Department
CHY4C1	Canadian & World Studies

Course Name

World History since the 15th Century. Grade 12, College Preparation (1.0 credit)

Description

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

Course **Department**
CHY4U1 **Canadian & World Studies**

Course Name

World History since the 15th Century. Grade 12, University Preparation (1.0 credit)

Description

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. Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

Course **Department**
CLU3M1 **Canadian & World Studies**

Course Name

Understanding Canadian Law, Grade 11, University/College Preparation (1.0 credit)

Description

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.

Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied

Course **Department**
EBT4O1 **English**

Course Name

Business and Technological Communication, Grade 12, Open Level (1.0 credit)

Description

This course emphasizes practical writing and communication skills that are needed in the world of business and technology. Students will analyse the characteristics of effective models of business and technical communications; gather information to write reports, business letters, memos, manuals, instructions, and brochures; and integrate graphics and text, using technology appropriately for formatting and special effects. They will also make a number of oral and visual presentations.

Prerequisite: English, Grade 11, University Preparation, College Preparation, or Workplace Preparation

Course **Department**
EMS3O1 **English**

Course Name

Media Studies, Grade 11, Open Level (1.0 credit)

Description

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

Prerequisite: English, Grade 10, Academic or Applied

Course **Department****ENG4C1** **English****Course Name**

English, Grade 12, College Preparation (1.0 credit)

Description

This course emphasizes consolidation of literacy, critical thinking, and communication skills. Students will analyse informational texts and literary works from various time periods, countries, and cultures; write research reports, summaries, and short analytical essays; complete an independent study project; and analyse the interactions among media forms, audiences, and media industry practices. An important focus will be on establishing appropriate style and using business and technical language effectively. Prerequisite: English, Grade 11, College or University Preparation.

Course **Department****ENG4U1** **English****Course Name**

English, Grade 12, University Preparation (1.0 credit)

Description

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. Prerequisite: English, Grade 11, University Preparation

Course **Department****NBE3C1** **English****Course Name**

English: Understanding Contemporary First Nations, Métis, and Inuit Voices, Grade 11, College Level (1.0 credit)

Description

This course explores the themes, forms, and stylistic elements of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also looks at the perspectives and influences of texts that relate to those cultures. In order to understand contemporary text forms and their themes of identity, relationship, and self-determination, sovereignty, or self-governance, students will study the use of text forms by Indigenous authors/creators from other periods in expressing ideas related to these themes. Students will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English college preparation course. Prerequisite: ENG2P or ENG2D

Course **Department****NBE3E1** **English****Course Name**

English: Understanding Contemporary First Nations, Métis, and Inuit Voices, Grade 11, Workplace Level (1.0 credit)

Description

This course explores themes, forms, and stylistic elements of literary, informational, graphic, oral, cultural, and media texts emerging from First Nations, Métis, and Inuit cultures in Canada, as well as some texts that relate to those cultures. In order to better understand contemporary texts, students will explore connections between traditional and contemporary text forms and cultural and community aspects of identity, relationships, and self-determination, sovereignty, or self-governance. Students will also create oral, written, and media texts focusing on the development of literacy, communication, and critical thinking skills necessary for success in the workplace and daily life. The course is intended to prepare students for the compulsory Grade 12 English workplace preparation course. Prerequisite: English, Grade 10, Academic, Applied OR Locally Developed.

Course **Department****NBE3U1** **English****Course Name**

English: Understanding Contemporary First Nations, Métis, and Inuit Voices, Grade 11, University Level (1.0 credit)

Description

This course explores the themes, forms, and stylistic elements of a variety of literary, informational, graphic, oral, cultural, and media text forms emerging from First Nations, Métis, and Inuit cultures in Canada, and also examines the perspectives and influence of texts that relate to those cultures. In order to fully understand contemporary text forms and their themes of identity, relationship, and self-determination, sovereignty, or self-governance, students will analyse the changing use of text forms by Indigenous authors/creators from various periods and cultures in expressing ideas related to these themes. Students will also create oral, written, and media texts to explore their own ideas and understanding, focusing on the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. The course is intended to prepare students for the compulsory Grade 12 English university or college preparation course. Prerequisite: ENG2D

Course **Department****OLC4O1** **English****Course Name**

Ontario Secondary School Literacy Course, Grade 12, Open (1.0 credit)

Description

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.

Course **Department****HFA4C1** **Social Sciences & Humanities****Course Name**

Nutrition and Health, Grade 12, College Preparation (1.0 credit)

Description

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.

Prerequisite: Any university, college, or university/college preparation course in social sciences and humanities, English, or Canadian and world studies

Course **Department****HFA4U1** **Social Sciences & Humanities****Course Name**

Nutrition and Health, Grade 12, University Preparation (1.0 credit)

Description

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.

Prerequisite: Any university or university/college preparation course in social sciences and humanities, English, or Canadian and world studies

Course	Department
HFL4E1	Social Sciences & Humanities

Course Name

Food and Healthy Living, Grade 12, Workplace Preparation (1.0 credit)

Description

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

Prerequisite: none

Course	Department
HHS4C1	Social Sciences & Humanities

Course Name

Families in Canada, Grade 12, College Preparation (1.0 credit)

Description

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.

Prerequisite: Any university, college, or university/college preparation course in social sciences and humanities, English, or Canadian and world studies.

Course	Department
HHS4U1	Social Sciences & Humanities

Course Name

Families in Canada, Grade 12, University Preparation (1.0 credit)

Description

This course enables students to draw on sociological, psychological, and anthropological theories and research to analyse the development of individuals, intimate relationships, and family and parent-child relationships. Students will focus on issues and challenges facing individuals and families in Canada's diverse society. They will develop analytical tools that enable them to assess various factors affecting families and to consider policies and practices intended to support families in Canada. They will develop the investigative skills required to conduct and communicate the results of research on individuals, intimate relationships, and parent-child relationships.

Prerequisite: Any university or university/college preparation course in social sciences and humanities, English, or Canadian and world studies

Course	Department
HNB4M1	Social Sciences & Humanities

Course Name

The World of Fashion, Grade 12, University/College Preparation (1.0 credit)

Description

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. Prerequisite: Any university, college, or university/college preparation course in social sciences and humanities, English, or Canadian and world studies

Course	Department
HSB4U1	Social Sciences & Humanities

Course Name

Challenge and Change in Society, Grade 12, University Preparation (1.0 credit)

Description

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. Prerequisite: Any university or university/college preparation course in social sciences and humanities, English, or Canadian and world studies

Course	Department
HSC4M1	Social Sciences & Humanities

Course Name

World Cultures, Grade 12, University/College Preparation (1.0 credit)

Description

This course examines the nature of culture; how cultural identities are acquired, maintained, and transformed; and theories used to analyse cultures. Students will explore world cultures, with an emphasis on the analysis of religious and spiritual beliefs, art forms, and philosophy. They will study the contributions and influence of a range of cultural groups and will critically analyse issues facing ethnocultural groups within Canada and around the world. Students will develop and apply research skills and will design and implement a social action initiative relating to cultural diversity. Prerequisite: Any university, college, or university/college preparation course in social sciences and humanities, English, or Canadian and world studies.

Course	Department
HSG3M1	Social Sciences & Humanities

Course Name

Gender Studies, Grade 11, University/College Preparation (1.0 credit)

Description

This course enables students to explore the social construction of gender. Students will learn about the dynamic nature of gender roles and norms; sexism and power relations; and the impact of representations of women and men in the media, popular culture, and the arts. Students will analyse a range of gender equity issues, including gender-based

violence and workplace equity, in both Canadian and global contexts. Students will develop and apply research skills and will design and implement a social action initiative relating to gender equity. Prerequisite: none

Course **Department**
HSP3C1 **Social Sciences & Humanities**

Course Name

Introduction to Anthropology, Psychology and Sociology, Grade 11, College Preparation (1.0 credit)

Description

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. Prerequisite: None

Course **Department**
HSP3U1 **Social Sciences & Humanities**

Course Name

Introduction to Anthropology, Psychology and Sociology, Grade 11, University Preparation (1.0 credit)

Description

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

Course **Department**
HZT4U1 **Social Sciences & Humanities**

Course Name

Philosophy: Questions and Theories, Grade 12, University Preparation (1.0 credit)

Description

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.

Prerequisite: Any university or university/college preparation course in social sciences and humanities, English, or Canadian and world studies

Course **Department**
IDC3O1 **Other**

Course Name

Evolution of Gaming, Grade 11, Open Level (1.0 credit)

Description

In this course, students will explore the emerging field of Game Studies broadly before honing in on video games as a key sub-component of this field. Students will encounter a wide range of foci in this course, including (but not limited to): play as an act of human development; the study of board games, card games, and other analogue media; and the

study of video games. This course will be of particular interest to students considering a career in game design or development. Prerequisite: none

Course	Department
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IDC4U1	Other
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Course Name

History of Rock and Roll, Grade 12, University Level (1.0 credit)

Description

This course combines selected expectations from CHY4U and HSB4U. In this course, students will explore the cyclical, social, and intergenerational impact that western culture has had on Rock & Roll music—and that Rock & Roll music has had on western culture. Topics to be covered include (but are not limited to): the Civil Rights movement, music as popular culture, social protest, and social activism. Genres to be covered include (but are not limited to): Blues, Rockabilly, Rock & Roll, Punk, and Britpop. Prerequisite: Any university or university/college preparation course in social sciences and humanities, English, or Canadian and world studies

Course	Department
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IDC4O1	Other
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Course Name

History of Rock and Roll, Grade 12, Open Level (1.0 credit)

Description

This course combines selected expectations from CHY4U and HSB4U. In this course, students will explore the cyclical, social, and intergenerational impact that western culture has had on Rock & Roll music—and that Rock & Roll music has had on western culture. Topics to be covered include (but are not limited to): the Civil Rights movement, music as popular culture, social protest, and social activism. Genres to be covered include (but are not limited to): Blues, Rockabilly, Rock & Roll, Punk, and Britpop. Prerequisite: None

Course	Department
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MAP4C1	Mathematics
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Course Name

Foundations for College Mathematics, Grade 12, College Preparation (1.0 credit)

Description

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; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades. Prerequisite: Mathematics, Grade 11, College Preparation

Course	Department
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MBF3C1	Mathematics
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Course Name

Foundations for College Mathematics, Grade 11, College Preparation (1.0 credit)

Description

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their

ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. Prerequisite: MFM2P

Course **Department**
MCR3U1 **Mathematics**

Course Name

Functions, Grade 11, University Preparation (1.0 credit)

Description

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. Prerequisite: Principles of Mathematics, Grade 10, Academic

Course **Department**
MCT4C1 **Mathematics**

Course Name

Mathematics for College Technology, Grade 12, College Preparation (1.0 credit)

Description

This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for a variety of college technology programs. Prerequisite: Functions and Applications, Grade 11, University/College Preparation, or Functions, Grade 11, University Preparation

Course **Department**
MCV4U1 **Mathematics**

Course Name

Calculus and Vectors, Grade 12, University Preparation (1.0 credit)

Description

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in three dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modeling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course. Prerequisite: Note: Advanced Functions, Grade 12, University

Preparation, must be taken prior to or concurrently with Calculus and Vectors.

Course	Department
MDM4U1	Mathematics

Course Name

Mathematics of Data Management, Grade 12, University Preparation (1.0 credit)

Description

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

Prerequisite: MCF3M or MCR3U

Course	Department
MEL3E1	Mathematics

Course Name

Mathematics for Work and Everyday Life, Grade 11, Workplace Preparation (1.0 credit)

Description

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

Prerequisite: Principles of Mathematics, Grade 9, Academic, or Foundations of Mathematics, Grade 9, Applied, or a ministry-approved locally developed Grade 10 mathematics course

Course	Department
MEL4E1	Mathematics

Course Name

Mathematics for Work and Everyday Life, Grade 12, Workplace Preparation (1.0 credit)

Description

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

Prerequisite: Foundations for College Mathematics, Grade 11, College Preparation, or Functions and Applications, Grade 11, University/College Preparation

Course	Department
MHF4U1	Mathematics

Course Name

Advanced Functions, Grade 12, University Preparation (1.0 credit)

Description

This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs. Prerequisite: MCR3U or MCT4C

Course	Department
PPZ3C1	Health & Physical Education

Course Name

Health For Life, Grade 11, College Level (1.0 credit)

Description

This course enables students to examine the factors that influence their own health practices and behaviours as well as those factors that contribute to the development of healthy communities. It emphasizes the concept of wellness, which addresses all aspects of well-being – physical, cognitive, emotional, spiritual, and social – and promotes healthy eating, physical activity, and building and maintaining a positive sense of self. Students will develop the skills necessary to make healthy choices and create a personal wellness plan. They will also design initiatives that encourage others to lead healthy, active lives. The course prepares students for college programs in health sciences, fitness, wellness, and health promotion. Prerequisite: none

Course	Department
PSK4U1	Health & Physical Education

Course Name

Introduction Kinesiology, Grade 11, University Level (1.0 credit)

Description

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. Prerequisite: Any Grade 11 university or university/college preparation course in science, or any Grade 11 or 12 course in health and physical education.

Course	Department
SBI3C1	Science

Course Name

Biology, Grade 11, College Preparation (1.0 credit)

Description

This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the

structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.

Prerequisite: Science, Grade 10, Academic or Applied

Course **Department**

SBI3U1 **Science**

Course Name

Biology, Grade 11, University Preparation (1.0 credit)

Description

This course furthers students' understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation. Prerequisite: SNC2D

Course **Department**

SBI4U1 **Science**

Course Name

Biology, Grade 12, University Preparation (1.0 credit)

Description

This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields. Prerequisite: Biology, Grade 11, University Preparation

Course **Department**

SCH3U1 **Science**

Course Name

Chemistry, Grade 11, University Preparation (1.0 credit)

Description

This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment. Prerequisite: Science, Grade 10, Academic

Course **Department**

SCH4C1 **Science**

Course Name

Chemistry, Grade 12, College Preparation (1.0 credit)

Description

This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment.

Students will use a variety of laboratory techniques, develop skills in data collection and scientific analysis, and

communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and the effects of technological applications and processes on society and the environment. Prerequisite: SNC2P or SNC2D

Course	Department
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SCH4U1	Science
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Course Name

Chemistry, Grade 12, University Preparation (1.0 credit)

Description

This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment. Prerequisite: SCH3U

Course	Department
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SPH3U1	Science
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Course Name

Physics, Grade 11, University Preparation (1.0 credit)

Description

This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment. Prerequisite: SNC2D

Course	Department
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SPH4C1	Science
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Course Name

Physics, Grade 12, College Preparation (1.0 credit)

Description

This course develops students' understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment. Prerequisite: Science, Grade 10, Academic or Applied

Course	Department
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SPH4U1	Science
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Course Name

Physics, Grade 12, University Preparation (1.0 credit)

Description

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.

Prerequisite: SPH3U

Course	Department
SVN3M1	Science

Course Name

Environmental Science, Grade 11, University/College Preparation (1.0 credit)

Description

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.

Prerequisite: Grade 10 Science, Applied or Academic
