

Grade 12 Course Selection

Student Name: _____

Compulsory Courses

Check Mark Choice	Course Code	Course Title
	ENG4U	English, University Preparation
	ENG4C	English, College Preparation

Optional Courses

Select 7 Optional courses. List them in order of preference from your 1st choice until your 7th choice.

Choice Order	Course Code	Course Title
<i>1st Choice</i>		
<i>2nd Choice</i>		
<i>3rd Choice</i>		
<i>4th Choice</i>		
<i>5th Choice</i>		
<i>6th Choice</i>		
<i>7th Choice</i>		

Student Signature: _____ Date: _____

Parent Signature: _____ Date: _____

Education Planner

Use the following chart to plan your course selection for obtaining an OSSD:

Grade 9	Grade 10	Grade 11	Grade 12	Additional
English	English	English	English	
Mathematics	Mathematics	Mathematics		
Science	Science			
Canadian Geography	Canadian History			
French	Civics and Citizenship/ Career Studies			
Learning Strategies**				
Arts*				
Physical Education*				

* *Optional but often recommended in grade 9 (see below)*
Academy

** Mandatory for all Grade 9 students at Heritage

What do you need to graduate?

18 Compulsory Credits

4 English	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3 Mathematics	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2 Science	<input type="checkbox"/> <input type="checkbox"/>
1 Canadian Geography	<input type="checkbox"/>
1 Canadian History	<input type="checkbox"/>
1 Health and Physical Education	<input type="checkbox"/>
1 The Arts	<input type="checkbox"/>
1 French as a Second Language	<input type="checkbox"/>
.5 Career Studies	<input type="checkbox"/>
.5 Civics	<input type="checkbox"/>

12 Optional Credits

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> 40 Community Involvement Hours
<input type="checkbox"/> Successful completion of the provincial literacy requirement OSSLT or OSSLC

Credit from each of the following groups:

- Group 1:** Additional credit in English, or French as a Second Language, or a Native language, or a Classical or an International language, or Social Sciences and the Humanities, or Canadian and World Studies, or Guidance and Career Education, or Cooperative Education
- Group 2 :** Additional credit in Health and Physical Education, or the Arts, or Business Studies, or French as a Second Language, or Cooperative Education
- Group 3 :** Additional credit in Science (Grade 11 or 12), or Technological Education, or French as a Second Language, or Computer Studies, or Cooperative Education

COURSE SELECTION

Grade 12: OPTIONAL COURSES

English

The Writer's Craft (EWC4U)

This course emphasizes knowledge and skills related to the craft of writing. Students will analyse models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project and investigate opportunities for publication and for writing careers. **Prerequisite:** English, Grade 11, University Preparation

Mathematics

Advanced Functions, University Preparation (MHF4U)

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:** Functions, Grade 11, University Preparation, or Mathematics for College Technology, Grade 12, College Preparation

Calculus & Vectors, University Preparation (MCV4U)

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course. **Prerequisite:** Advanced Functions (MHF4U) must be taken prior to or concurrently with Calculus and Vectors (MCV4U).

Foundations for College Mathematics, College Preparation (MAP4C)

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

Mathematics for Work and Everyday Life, Workplace Preparation (MEL4E)

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs, create household budgets, and prepare a personal income tax return; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking. **Prerequisite:** Mathematics for Work and Everyday Life, Grade 11, Workplace Preparation

Business Studies

International Business Fundamentals (BBB4M)

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

Sciences

Biology, University Preparation (SBI4U)

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

Chemistry, University Preparation (SCH4U)

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:** Chemistry, Grade 11, University Preparation

Chemistry, College Preparation (SCH4C)

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:** Science, Grade 10, Academic or Applied

Physics, University Preparation (SPH4U)

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:** Physics, Grade 11, University Preparation

Physics, College Preparation (SPH4C)

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

Social Sciences and Humanities

Challenge & Change in Society (HSB4U)

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

Human Development throughout the Lifespan (HHG4M)

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

Nutrition and Health (HFA4U)

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

World Cultures (HSC4M)

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 ethno cultural 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

Guidance and Career Education

Navigating the Workplace (GLN4O)

This course provides students with opportunities to develop the workplace essential skills and work habits required for success in all types of workplaces. Students will explore occupations and careers of interest through participation in real workplace experiences. They will make plans for continued learning and work, work with others to design learning experiences, and investigate the resources and support required to make a smooth transition to their postsecondary destination. **Prerequisite:** None

Personal Life Management (HIP4O)

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. **Prerequisite:** None

Canadian and World Studies

Canadian and International Politics (CPW4U)

This course explores various perspectives on issues in Canadian and world politics. Students will explore political decision making and ways in which individuals, stakeholder groups, and various institutions, including governments, multinational corporations, and non-governmental organizations, respond to and work to address domestic and international issues. Students will apply the concepts of political thinking and the political inquiry process to investigate issues, events, and developments of national and international political importance, and to develop and communicate informed opinions about them. **Prerequisite:** Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

The Environment and Resource Management (CGR4M)

This course investigates the complexity and fragility of ecosystems and the pressures human activities place on them. Students will examine ecological processes, the principles of sustainability, and strategies for resource management, with a focus on the challenges of environmental degradation and resource depletion. Students will use geo-technologies and skills of geographic inquiry to explain and evaluate various approaches to achieving a more sustainable relationship between people and their environment.

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

Canada: History, Identity, and Culture (CHI4U)

This course explores the challenges associated with the formation of a Canadian national identity. Students will examine the social, political, and economic forces that have shaped Canada from the pre-contact period to the present and will investigate the historical roots of contemporary issues from a variety of perspectives. Students will use critical-thinking and communication skills to consider events and ideas in historical context, debate issues of culture and identity, and present their own views. **Prerequisite:** Any university or university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities

Healthy Active Living

Healthy Active Living Education (PPL4O)

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.

Prerequisite: None

Introduction to Kinesiology (PSK4U)

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