Grades 11 and 12 U or M electives:

Notes:

- Ontario Universities accept U or M courses, but not C, E or O courses. Hence, all these courses below are valid for admission to Ontario universities (and colleges of course).
- European universities specifically ask for six U courses. Hence, students wishing to apply to European schools should only take U courses (which limits the number of electives).
- Most of the following courses come in packages of 2 (a Grade 11 course combined with a Grade 12 course). The program tuition only includes 3 prerequisites and 6 Grade 12 courses. Hence, if a student wishes to take a package which includes a Grade 11 course, the student will pay for the extra (Grade 11) course.

BUSINESS

11&12 Accounting sequence

Financial Accounting Fundamentals (BAF3M)
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, ethics and current issues in accounting.
Prerequisite: None

Financial Accounting Principles (BAT4M)
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.
Prerequisite: Financial Accounting Fundamentals, Grade 11

Grade 12 electives with <u>no</u> prerequisites

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

Business Leadership: Management Fundamentals (BOH4M)
This course focuses on the development of leadership skills used in managing a successful business. Students will analyze the role of a leader in business, with a focus on decision making,

management of group dynamics, workplace stress and conflict, motivation of employees, and planning. **Effective** business communication skills, ethics, and social responsibility are also emphasized.
Prerequisite: None

COMPUTER STUDIES

Grade 11 & 12 Comp Sci Sequence

(recommended for those seeking admission to Computer Science programs)

Introduction to Computer Science (ICS3U)
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.
Prerequisite: None

Computer Science (ICS4U)
This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyze algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.
Prerequisite: Introduction to Computer Science, Grade 11

TECHNOLOGICAL EDUCATION

Communications Technology package

Communications Technology (TGJ3M)
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.
Prerequisite: None

Communications Technology (TGJ4M)
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.
Prerequisite: Communications Technology

Computer Technology package

Computer Engineering Technology, Grade 11 (TEJ3M)
This course examines computer systems and control of external devices. Students will assemble computers and small networks by installing and configuring appropriate hardware and software. Students will develop knowledge and skills in electronics, robotics, programming, and networks, and will build systems that use computer programs and interfaces to control and/or respond to external devices. Students will develop an awareness of related environmental and societal issues and will learn about college and university programs leading to careers in computer technology.
Prerequisite: None

Computer Engineering Technology (TEJ4M)
This course extends students' understanding of computer systems and computer interfacing with external devices. Students will assemble computer systems by installing and configuring appropriate hardware and software, and will learn more about fundamental concepts of electronics, robotics, programming, and networks. Students will examine related environmental and societal issues and will explore postsecondary pathways leading to careers in computer technology.
Prerequisite: Computer Engineering Technology, Grade 11

Green Industries Package

Green Industries (THJ3M)
This course enables students to develop knowledge and skills related to agriculture, forestry, horticulture, and landscaping. Students will study the identification, growth, and management of plants and animals and develop process, design, and management skills required in the green industries. Students will also examine social and economic issues related to green industries, learn about safe and healthy working practices, study industry standards and codes, and will explore postsecondary education programs and career opportunities.
Prerequisite: None

Green Industries (THJ4M)
This course focuses on more complex concepts and skills related to green industries. Students will focus on developing process skills, design and management techniques, and ways of enhancing environmental sustainability. They will also examine social and economic issues related to green industries, learn about safe and healthy working practices, study industry standards and codes, and explore career opportunities. The knowledge and skills acquired in this course will prepare students for more specialized studies at the college and university level.
Prerequisite: Green Industries, Grade 11

Health Care package

Health Care, Grade 11 (TPJ3M)
This course enables students to develop their understanding of basic health care procedures, including the safe use of appropriate instruments, equipment, and materials. Students will focus on health care fundamentals, including the anatomical features and physiology of the major body systems and the factors that affect homeostasis in the human body. Students will develop an awareness of health and safety issues in the health care field, analyze environmental and societal issues related to health care, and learn about professional practice standards and career opportunities in the field.
Prerequisite: None

Health Care (TPJ4M)
This course focuses on the development of a range of skills needed to analyze and interpret clinical findings. Students will learn about accepted health care practices and demonstrate an understanding of basic procedures and the use of appropriate instruments and equipment. They will acquire an understanding of basic concepts related to the function of the human immune system and explore the relationship between pathology and disease prevention and treatment. Students will expand their awareness of workers' health and safety issues, analyze environmental and societal issues related to health care, and further explore professional practice standards and postsecondary destinations in the field.
Prerequisite: Health Care, Grade 11

Manufacturing Technology package

Manufacturing Engineering Technology, Grade 11 (TMJ3M)
This course enables students to develop knowledge and skills related to design, process planning, control systems, and quality assurance. Students will use a broad range of tools and equipment and will combine modern manufacturing techniques and processes with computer-aided manufacturing as they develop critical decision-making, problem-solving, and project-management skills. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.
Prerequisite: None

Manufacturing Engineering Technology (TMJ4M)
This course enables students to further develop knowledge and skills related to design, process planning, control systems, project management, quality assurance, and business operations. Students will use a broad range of tools and equipment, enhance their skills in computer-aided design and collaborate in managing a project. Students will critically analyze and solve complex problems involved in manufacturing products. Students will expand their awareness of environmental and societal issues and of career opportunities in the manufacturing industry.
Prerequisite: Manufacturing Engineering Technology, Grade 11

Technological Design package

Technological Design, Grade 11 (TDJ3M)

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.
Prerequisite: None

Technological Design (TDJ4M)
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.
Prerequisite: Technological Design, Grade 11

CANADIAN AND WORLD STUDIES

Economics

The Individual and the Economy (CIE3M)
This course explores issues and challenges facing the Canadian economy as well as the implications of various responses to them. Students will explore the economic role of firms, workers, and government as well as their own role as individual consumers and contributors, and how all of these roles contribute to stability and change in the Canadian economy. Students will apply the concepts of economic thinking and the economic inquiry process, including economic models, to investigate the impact of economic issues and decisions at the individual, regional, and national level.
Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied

Analyzing Current Economic Issues (CIA4U)
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.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

Geography

Regional Geography (CGD3M)

This course explores interrelationships between the land and people in a selected region as well as interconnections between this region and the rest of the world. Students will explore the region's environmental, socio-economic, and cultural characteristics and will investigate issues related to natural resources, economic development and sustainability, population change, globalization, and quality of life. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate a range of geographic issues in the region.

Note: This course is developed and delivered with a focus, to be determined by the school, on the geography of a selected region of the world.

Prerequisite: Issues in Canadian Geography, Grade 9, Academic or Applied

Forces of Nature: Physical Processes and Disasters (CGF3M)

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 technologies to analyze these processes, make predictions related to natural disasters, and assess ways of responding to them.

Prerequisite: Issues in Canadian Geography, Grade 9, Academic or Applied

World Issues: A Geographic Analysis (CGW4U)

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 will analyze government policies, international agreements, and individual responsibilities relating to them. Students will apply the concepts of geographic thinking and the geographic inquiry process, including the use of spatial technologies, to investigate these complex issues and their impacts on natural and human communities around the world.

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

World Geography: Urban Patterns and Population Issues (CGU4M)

The world's population is growing, it is moving and intermixing, and it is increasingly found in cities. This course explores these changes and the challenges that come with them. It investigates the forces that are shaping the world's communities, the patterns of interaction between them, the quality of life within them, and their impact on the world around them. Students will apply the concepts of geographic thinking, the geographic inquiry process, and spatial skills and technologies as they investigate issues related to population change and urban life and propose ways of enhancing the sustainability of communities around the world.

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

The Environment and Resource Management (CGR4M)
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 analyze 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

Spatial Technologies in Action (CGO4M)
This course provides a foundation for students who are considering a career involving computer-based spatial technologies. Students will analyze and propose solutions to real-life issues related to spatial organization, such as determining transportation routes, appropriate locations for community services, or potential conservation and preservation areas. Students will extend their ability to use geographic information systems (GIS), global positioning systems (GPS), and remote sensing and to create maps, charts, and graphs. Throughout the course, students will apply the concepts of geographic thinking and the geographic inquiry process to investigate various issues related to spatial organization.
Prerequisite: Any university, university/college, or college preparation course in Canadian and world studies, English, or social sciences and humanities

History

American History (CHA3U)
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.
Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied

World History to the End of the Fifteenth Century (CHW3M)
This course explores the history of various societies and civilizations around the world, from the 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

Canada: History, Identity, and Culture (CHI4U)
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 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.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities

World History since the Fifteenth Century (CHY4U)
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

Law

Understanding Canadian Law (CLU3M)
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

Canadian and International Law (CLN4U)
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.

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

Politics

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