

GRADE 11 COURSE DESCRIPTIONS

English, University Preparation

ENG3U

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course.

Prerequisite: English, Grade 10, Academic

Functions, University Preparation

MCR3U

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; and develop facility in simplifying polynomial and rational expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: Principles of Mathematics, Grade 10, Academic

Functions and Applications, University/College Preparation

MCF3M

This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: Principles of Mathematics, Grade 10, Academic

Introduction to Computer Science, University Preparation

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

Introduction to Financial Accounting, University/College Preparation

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, and ethics and current issues in accounting.

Prerequisite: None

Biology, University Preparation

SBI3U

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: Science, Grade 10, Academic

Biology, College Preparation

SBI3C

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

Chemistry, University Preparation

SCH3U

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

Physics, University Preparation

SPH3U

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: Science, Grade 10, Academic

Religious Studies (Locally Developed Course: 0.50 credit)

HRE33

This course will focus on key doctrines foundational to Biblical Christianity. Study will include topics such as the doctrine of God and creation, the doctrine of man in relation to God, the doctrine of the Person and work of Christ, the doctrine of the application of the work of redemption, the doctrine of the Church and the means of grace, and the doctrine of last things. Students are also required to memorize passages of Scripture in each term.

Prerequisite: none

World Religions and Belief Traditions: Perspectives, Issues, and Challenges, University/College Preparation

HRT3M

This course provides students with opportunities to explore various world religions and belief traditions. Students will develop knowledge of the terms and concepts relevant to this area of study, will examine the ways in which religions and belief traditions meet various human needs, and will learn about the relationship between belief and action. They will examine sacred writings and teachings, consider how concepts of time and place influence different religions and belief traditions, and develop research and inquiry skills related to the study of human expressions of belief.

Prerequisite: none

Healthy Active Living Education, Open

PPL3O

This course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively.

Prerequisite: None

Visual Arts, University/College Preparation

AVI3M

This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using

emerging technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular art form (e.g., photography, video, computer graphics, information design). **Material fee: \$20**

Prerequisite: Visual Arts, Grade 9 or 10, Open

Music, University/College Preparation

AMU3M

This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

Prerequisite: Music, Grade 9 or 10, Open

Core French, University Preparation

FSF3U

This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence. Students will develop their listening, speaking, reading, and writing skills, as well as their creative and critical thinking skills, through responding to and exploring a variety of oral and written texts. They will also broaden their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning.

Prerequisite: Core French, Grade 10, Academic

International Languages(German) Open, Level 1

LWGBO

This course provides opportunities for students to begin to develop and apply fundamental skills in listening, speaking, reading, and writing in the language of study(German). Students will communicate and interact in structured activities and practical situations, with a focus on matters of personal interest and familiar topics, and will read and write simple texts in the language. Throughout the course, students will acquire a general understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also develop skills necessary for lifelong language learning.

Prerequisite: None

International Languages (Spanish) Open, Level 2

LWSCO

This course provides opportunities for students to develop competence and confidence in listening, speaking, reading, and writing in the language of study(Spanish). Students will communicate about matters of personal interest and everyday topics in interactive settings that emphasize real-life applications, and will read and write a variety of texts of increasing complexity in the language. Students will continue to develop their understanding and appreciation of diverse communities in regions of the world where the language is spoken. They will also explore personal and professional contexts in which knowledge of the language is required, and develop skills necessary for lifelong language learning.

Prerequisite: International Languages (Spanish), Level 1, Academic or Open

Classical Greek, Academic, Level 1 (Half credit)

LVGBD

This (part one)course introduces students to the achievements of the classical world through the study of ancient Greek. Students will learn vocabulary and grammatical concepts essential for reading and translating adapted classical texts. English is the language of instruction, and students will develop their oral communication, reading, and writing skills in both English and ancient Greek. Through a variety of enrichment activities, students will explore aspects of life in the ancient world, including trade, commerce, education, arts, sports, ecology, daily life, and social practices, and will make connections across the curriculum between the classical world and the world around them.

Prerequisite: None

Latin, Academic, Level 1 (Half credit)

LVLBD

This (part one)course introduces students to the achievements of the classical world through the study of Latin. Students will learn vocabulary and grammatical concepts essential for reading and translating adapted classical texts. English is the language of instruction, and students will develop their oral

communication, reading, and writing skills in both English and Latin. Through a variety of enrichment activities, students will explore aspects of life in the ancient world, including trade, commerce, education, arts, sports, ecology, daily life, and social practices, and will make connections across the curriculum between the classical world and the world around them.

Prerequisite: None