

# Courses Offered at AFNORTH

## TYPES OF COURSES

The types of courses available in the secondary school program:

In Grades 9 and 10, three types of courses are offered: academic courses, applied courses, and open courses. Academic courses emphasize theory and abstract problems. Applied courses focus on practical applications and concrete examples. Both types of courses set high expectations for students while preparing them for studies in the senior grades. Open courses are described below.

In Grades 11 and 12, courses offered to prepare students for their postsecondary destinations include: university preparation courses, developed in close collaboration with universities; university/college preparation courses, developed in close collaboration with both universities and colleges; college preparation courses, developed in close collaboration with colleges; and workplace preparation courses, developed in close collaboration with representatives from a variety of workplaces. Open courses are also offered in Grades 11 and 12 (see below).

Open courses, offered in all secondary school grades, are designed to prepare students for further study in certain subjects and to enrich their education generally. Like the other types of courses, open courses are credit-based and are counted towards the 30 credits required to meet diploma requirements.

## COURSE CODE EXPLANATION

All courses are identified by a computer code common to all secondary schools.

The first three characters identify department and the course

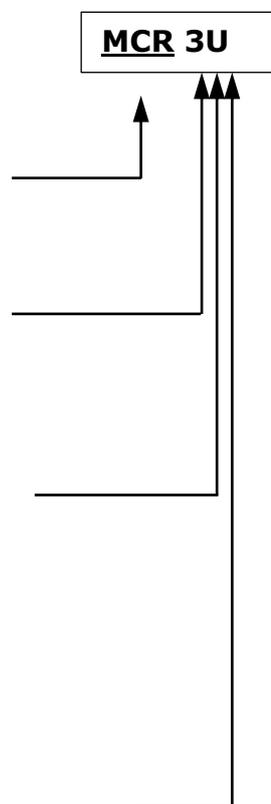
MCR Mathematics  
SBI Science, Biology

The fourth character identifies the year or grade

Grade 9  
Grade 10  
Grade 11  
Grade 12

The fifth character identifies the level of instruction for the course

O Open — suitable for all levels (e.g., art, music, physical education)  
P Applied — focus on practical applications  
D Academic — emphasis is on theory and abstract problems  
U University Preparation — developed in association with universities  
E Workplace Preparation — developed in association with workplace  
C College Preparation — developed in association with colleges  
M University/College Preparation — developed in collaboration with both colleges and universities



## Grade 11 Courses Offered at AFNORTH

Note: \*Prerequisites are required for many courses.

### ARTS

#### *AVI3M Visual Arts (University/College)*

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).

Prerequisites: AVI10 or AVI20

#### *AVI4M Visual Arts (University/College)*

This course focuses on enabling students to refine their use of the creative process when creating and presenting two- and three-dimensional art works using a variety of traditional and emerging media and technologies. Students will use the critical analysis process to deconstruct art works and explore connections between art and society. The studio program enables students to explore a range of materials, processes, and techniques that can be applied in their own art production. Students will also make connections between various works of art in personal, contemporary, historical, and cultural contexts.

Prerequisite: AVI3M, University/College Preparation

### CANADIAN AND WORLD STUDIES

#### *CGC30 Travel and Tourism: A Geographic Perspective, Grade 11 (Open)*

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: Canadian Geographic Issues, Grade 9, Academic or Applied

#### *CLU 3M Understanding Canadian Law (University/College)*

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: CHC 2D or CHC 2P

### ENGLISH

#### *ENG 3U English (University Preparation)*

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will analyze challenging texts, both contemporary, and historical; conduct research and analyze the information gathered; write persuasive and literary essays; and analyze the relationship among media forms, audiences, and media industry practices. An important focus will be on understanding the development of the English language.

Prerequisite: ENG2D

## **French as a second language**

### *FSF 3U Core French (University Preparation)*

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

Prerequisite: FSF 2D

## **GUIDANCE**

### *GLC 20 Career Studies (Open) (.5 credit)*

This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.

Prerequisite: None

## **MATHEMATICS**

### *MCR3U Functions (University)*

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: MPM 2D

## **PHYSICAL EDUCATION**

### *PPL30 Healthy and Active Living (Open)*

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

## **SCIENCE**

### *SBI 3U Biology (University)*

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: SNC 2D

### *SCH 3U Chemistry (University)*

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: SNC 2D

### *SPH 3U Physics (University)*

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 analyze the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

Prerequisite: SNC 2D

## **SOCIAL SCIENCES AND HUMANITIES**

### *HSP3U Introduction to Anthropology, Psychology and Sociology (University)*

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, 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).

Detailed descriptions of all Ontario Ministry of Education Curriculum and Diploma requirements can be found at:

<http://www.edu.gov.on.ca/eng/teachers/curriculum/secondary/>

## **DISTANCE EDUCATION**

In consultation with the Guidance Counsellor and with the approval of the Principal students may be registered in E-Learning Courses to fulfill graduation requirements, address student interests, strengths, needs as well as post-secondary plans.

For these courses, our school accesses two Canadian E-Learning course providers as follows:

ILC Ontario - [www.ilc.org](http://www.ilc.org)

VHS - [www.virtualhighschool.com](http://www.virtualhighschool.com)

Listed below is a **sample of courses** that have been offered through e-learning at AFNORTH International School.

### **BUSINESS STUDIES**

BTA 30 Information and Communication Technology: The Digital Environment, Grade 11, Open  
<http://www.edu.gov.on.ca/eng/curriculum/secondary/business1112currb.pdf>

BMX 3E Marketing: Retail and Service, Grade 11, Workplace Preparation  
<http://www.edu.gov.on.ca/eng/curriculum/secondary/business1112currb.pdf>

### **CANADIAN AND WORLD STUDIES**

CIA 4U Analysing Current Economic Issues, Grade 12 University Preparation  
<http://www.edu.gov.on.ca/eng/curriculum/secondary/2015cws11and12.pdf>

CHI 4U

Canada: History, Identity, and Culture, Grade 12, University Preparation  
<http://www.edu.gov.on.ca/eng/curriculum/secondary/2015cws11and12.pdf>

## **ENGLISH**

EMS30 – MEDIA STUDIES, GRADE 11 OPEN

<http://www.edu.gov.on.ca/eng/curriculum/secondary/english.html>

EWC 4U The Writer's Craft, Grade 12, University Preparation

<http://www.edu.gov.on.ca/eng/curriculum/secondary/english1112currb.pdf>

## **GUIDANCE AND CAREER EDUCATION**

GWL 30 - Designing Your Future, Grade 11, Open

<http://www.edu.gov.on.ca/eng/curriculum/secondary/guidance1112currb.pdf>

## **HEALTH AND PHYSICAL EDUCATION**

PPZ3C Health for Life, Grade 11, College Preparation

<http://www.edu.gov.on.ca/eng/curriculum/secondary/health9to12.pdf>

PSK 4U Introductory Kinesiology, Grade 12, University Preparation

<http://www.edu.gov.on.ca/eng/curriculum/secondary/health9to12.pdf>

## **MATHEMATICS**

MEL3E – Mathematics For Work And Everyday Life, Grade 11 Workplace

<http://www.edu.gov.on.ca/eng/curriculum/secondary/math1112currb.pdf>

MDM 4U Mathematics of Data Management, University Preparation

<http://www.edu.gov.on.ca/eng/curriculum/secondary/math1112currb.pdf>

## **SCIENCE**

SNC2D – Science, Grade 10 Academic

[http://www.edu.gov.on.ca/eng/curriculum/secondary/science910\\_2008.pdf](http://www.edu.gov.on.ca/eng/curriculum/secondary/science910_2008.pdf)

SES 4U Earth and Space Science, Grade 12, University Preparation

[http://www.edu.gov.on.ca/eng/curriculum/secondary/2009science11\\_12.pdf](http://www.edu.gov.on.ca/eng/curriculum/secondary/2009science11_12.pdf)

## **SOCIAL SCIENCE AND HUMANITIES**

HRT 3M World Religions and Belief Traditions: Perspectives, Issues, and Challenges, Grade 11 University/College Preparation

<http://www.edu.gov.on.ca/eng/curriculum/secondary/ssciences9to122013.pdf>

HSB4U - Challenge and Change in Society, Grade 12 University

<http://www.edu.gov.on.ca/eng/curriculum/secondary/ssciences9to122013.pdf>

## **TECHNOLOGICAL EDUCATION**

TFJ3C Hospitality and Tourism, Grade 11, College Preparation

<http://www.edu.gov.on.ca/eng/curriculum/secondary/2009teched1112curr.pdf>