

# 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

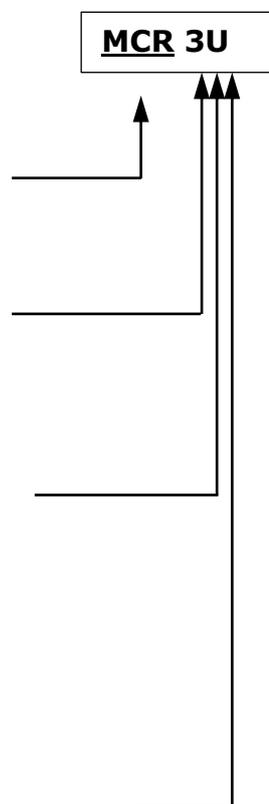
MCR Mathematics  
SBI Science, Biology

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 10 Courses Offered at AFNORTH

### ARTS

#### *AVI20 Visual Arts (Open)*

This course enables students to develop their skills in producing and presenting art by introducing them to new ideas, materials, and processes for artistic exploration and experimentation. Students will apply the elements and principles of design when exploring the creative process. Students will use the critical analysis process to reflect on and interpret art within a personal, contemporary, and historical context.

Prerequisites: None

#### *NAC 10 Expressing Aboriginal Cultures (Open)*

This course examines Aboriginal cultures in Canada through an exploration of art forms – painting, sculpture, storytelling, dance, and music – created by Aboriginal artists. Students will learn to identify Aboriginal art forms and describe relationships between the art forms and Aboriginal traditions, philosophy, and culture. Students will also create their own art forms to express their understanding of Aboriginal identity, relationships, and sovereignty.

Prerequisite: None

### CANADIAN AND WORLD STUDIES

#### *CGC1D Geography of Canada (Academic)*

This course examines interrelationships within and between Canada's natural and human systems and how these systems interconnect with those in other parts of the world. Students will explore environmental, economic, and social geographic issues relating to topics such as transportation options, energy choices, and urban development. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate various geographic issues and to develop possible approaches for making Canada a more sustainable place to live.

Prerequisite: None

#### *CHV 20 Civics (Open)*

This 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

#### *CHC2D Canadian History since World War I (Academic)*

This course explores social, economic, and political developments and events and their impact on the lives of different groups 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 Canadian identity, citizenship, and heritage. 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

### ENGLISH

#### *ENG 2D English (Academic)*

This course is designed to extend the range of oral communication, reading, writing, and media

literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyze literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.

Prerequisite: ENG1D

## **French as a second language**

### *FSF 1P Core French (Applied)*

This course provides opportunities for students to communicate and interact in French in structured situations on everyday topics and to apply their knowledge of French in everyday situations. Students will continue to develop language knowledge and skills introduced in the elementary Core French program, through practical applications and concrete examples, and will use creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary to become life-long language learners.

Prerequisite: Minimum of 600 hours of elementary Core French instruction, or equivalent

### *FSF 1D Core French (Academic)*

This course provides opportunities for students to communicate and interact in French with increasing independence, with a focus on familiar topics related to their daily lives. Students will continue to develop language knowledge and skills by using language-learning strategies introduced in the elementary Core French program, and will apply creative and critical thinking skills in various ways. They will also enhance their understanding and appreciation of diverse French-speaking communities, and will develop the skills necessary to become life-long language learners.

Prerequisite: Minimum of 600 hours of elementary Core French instruction, or equivalent

### *FSF 2D Core French (Academic)*

This course provides opportunities for students to communicate in French about personally relevant, familiar, and academic topics in real-life situations with increasing independence. Students will exchange information, ideas, and opinions with others in guided and increasingly spontaneous spoken interactions. Students will continue to develop their language knowledge and skills through the selective use of strategies that contribute to effective communication.

They will also increase their understanding and appreciation of diverse French-speaking communities, and will continue to develop the skills necessary to become life-long language learners.

Prerequisite: FSF1D or FSF1P

## **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**

### *MPM2D Principles of Mathematics (Academic)*

This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and

abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Prerequisite: MPM 1D

#### *MFM2P Foundations of Mathematics (Applied)*

This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: MFM 1P

## **PHYSICAL EDUCATION**

#### *PPL2O Healthy and Active Living (Open)*

The purpose of this course is to provide students with an opportunity to improve their physical fitness through exercise. Students are required to workout daily using a variety of individual cardiovascular and strength training exercises. This course introduces the basic concepts of lifetime fitness development, health, and exercise programming. Students will gain an understanding of various terms, concepts, principles, and benefits of conditioning.

Prerequisite: None

## **SCIENCE**

#### *SNC 2D Science (Academic)*

This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid-base reactions; forces that affect climate and climate change; and the interaction of light and matter.

Prerequisite: SNC 1D

## **Social Sciences and Humanities**

#### *HFN 2O Food and Nutrition (Open)*

This course focuses on guidelines for making nutritious food choices. Students will investigate factors that influence food choices, including beliefs, attitudes, current trends, traditional eating patterns, food-marketing strategies, and individual needs. Students will also explore the environmental impact of a variety of food choices at the local and global level. The course provides students with opportunities to develop food-preparation skills and introduces them to the use of social science research methods in the area of food and nutrition.

Prerequisite: None

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/>