

**Students enrolled in this program are required to register in:**

### **INTERDISCIPLINARY STUDIES 0015**

#### **Success in the University Environment**

This course is designed to provide students who are registered in the Brescia University College Preliminary Year with opportunities to learn new abilities and upgrade skills needed to achieve success in the university environment. Successful completion of Interdisciplinary Studies 0015 is required to pass Preliminary Year at Brescia.

1.5 hours, non-credit

**In addition to the required course listed above, students choose courses from the following list:**

### **BIOLOGY 0011A/B**

#### **Introductory Biology I**

The concepts and processes of biological systems up to the cellular level. This course explores basic chemistry and the molecules of life, membrane and cell structure and function, enzymes and reactions, photosynthesis, DNA, protein synthesis, and mitosis and meiosis.

2 lecture hours, 3 laboratory/tutorial hours, 0.5 course

### **BIOLOGY 0012A/B**

#### **Introductory Biology II**

The concepts and processes of biological systems at the levels of the organism, population and ecosystem. This course explores genetics and inheritance, evolution and ecology, plant structure and function, animal structure and systems, and diversity of life.

2 lecture hours, 3 laboratory/tutorial hours, 0.5 course

### **CHEMISTRY 0011A/B**

#### **Introductory Chemistry I**

This course will explore the foundations of matter through atomic theory, investigate chemical reactions with stoichiometry, predict bonding and structure of compounds, and examine the properties, reactions and structures of organic molecules.

2 lecture hours, 3 laboratory/tutorial hours, 0.5 course

### **CHEMISTRY 0012A/B**

#### **Introductory Chemistry II**

This course explores thermodynamics, kinetics and equilibrium of chemical reactions, behaviour of ideal gases, and interpretation of redox reactions. Students will engage in problem solving and apply laws and theories to analyze chemical reactions that support our society with heat, batteries, buffers, and important materials.

2 lecture hours, 3 laboratory/tutorial hours, 0.5 course

### **ECONOMICS 0011A/B**

#### **Introduction Microeconomics**

This course introduces students to current Canadian and international economic issues. Students will explore basic economic concepts and reasoning; demand, supply and price; and markets, production and costs.  
3 lecture hours, 0.5 course

### **ECONOMICS 0012A/B**

#### **Introduction Macroeconomics**

This course introduces students to current Canadian and international economic issues with a focus on large scale economic performance and measuring economic performance, including topics in economic instability and fiscal policy, banking and monetary policy, and international trade and economic growth.  
3 lecture hours, 0.5 course

Students are strongly advised to take Economic 0011A/B before taking Economics 0012A/B.

### **English 0011A**

#### **Poetry and Drama**

This course is designed to introduce the student to the study of literature with a focus on poetry and drama, and may include examples from film. The course will encourage a critical approach to literature, with special attention to essay-writing skills.  
3 lecture hours, 0.5 course.

### **English 0012B**

#### **Short Stories and Novels**

This course is designed to introduce the student to the study of literature with a focus on short stories and novels. The course will encourage a critical approach to literature, with special attention to essay-writing skills.  
3 lecture hours, 0.5 course.

### **FOODS AND NUTRITION 0011A/B**

#### **Introduction to Foods and Nutrition: Healthy Eating**

An introductory course about the basic aspects of Healthy Eating. Emphasis will be placed on how students can use credible resources to find information about the nutrient content of foods, read food labels, nutrition recommendations (including Canada's Food Guide) and the eating habits for their life stage and make healthy food choices for themselves.  
3 lecture hours (includes in-class activities), 0.5 course.

### **FOODS AND NUTRITION 0012A/B**

#### **Introduction to Foods and Nutrition: Lifecycle Nutrition**

An introductory course about the basic aspects of Life Cycle Nutrition. Emphasis will be placed on how students can use credible resources to find information about nutrition recommendations and eating habits of Canadians of all ages and life stages, nutrition and disease prevention, nutrition and physical activity, safe food handling procedures, food biotechnology and global hunger.  
3 lecture hours (includes in-class activities), 0.5 course.

### **FRENCH 1002**

#### **Intensive French**

Grammar, composition, oral practice. This course is designed for students beginning French, or having a limited knowledge of French.

5 lecture/laboratory hours, 1.0 course.

### **LEADERSHIP STUDIES 0010A/B**

#### **Introduction to Leadership**

In this course students are introduced to the history and evolution of approaches to leadership, and discover what makes an effective leader in today's world.

3 lecture hours, 0.5 course

### **MATHEMATICS 0105A/B**

#### **Precalculus Mathematics**

Set theory, functions and relations, trigonometry, logarithms and exponents.

3 lecture hours, 0.5 course.

### **MATHEMATICS 0110A/B**

#### **Introductory Calculus**

Introduction to differential calculus including limits, continuity, definition of derivative, rules for differentiation, implicit differentiation, velocity, acceleration, related rates, maxima and minima, exponential functions, logarithmic functions, differentiation of exponential and logarithmic functions, curve sketching.

4 lecture hours, 0.5 course.

### **MATHEMATICS 1229A/B**

#### **Methods of Matrix Algebra**

Matrix algebra including vectors and matrices, linear equations, determinants. This course is intended primarily for students in the Social Sciences, but may meet minimum requirements for some Science modules.

3 lecture hours, 0.5 course.

### **PHYSICS 0011A/B**

#### **Introductory Physics I**

An introductory course in physics covering the foundation principles of kinematics, force and motion, work and energy, linear momentum, rotation, torque and angular momentum, fluids, oscillations, and waves.

2 lecture hours, 3 laboratory/tutorial hours, 0.5 course

### **PHYSICS 0012A/B**

#### **Introductory Physics II**

This course explores gravitation, electric circuits, electric fields and potential, magnetic fields and electromagnetic induction.

2 lecture hours, 3 laboratory/tutorial hours, 0.5 course

### **PSYCHOLOGY 0010A/B**

#### **Introduction to Psychological Principles**

This course introduces students to the biological bases (evolutionary, genetic, and physiological) of behaviour. The course surveys core areas of psychology including behaviour genetics, evolutionary psychology, brain and behaviour, sensation and perception, learning, states of consciousness, motivation and emotion, and cognition.

3 lecture hours, 0.5 course. 0.5 course

### **PSYCHOLOGY 0015A/B**

#### **Application of Psychological Principles**

An introduction to the application psychology in different contexts. This course surveys core areas of psychology including development over the life span, personality, behaviour in a social context, psychological disorders and their treatment, and applications of psychology in areas such as industrial organizational, educational, and health psychology.

Prerequisite(s): Psychology 0010A/B and registration in a Preliminary Year Program at Brescia University College

3 lecture hours, 0.5 course.

### **RELIGIOUS STUDIES 0014A**

#### **Religion and Contemporary World**

An introduction to Religious Studies that incorporates autobiographies and/or biographies of contemporary people representing different religious perspectives and walks of life. The course introduces students to the theory of religion and focuses particularly on the tension between religious traditions and contemporary realities

3 lecture hours, 0.5 course

### **RELIGIOUS STUDIES 0015B**

#### **Religion, Culture, Violence**

An introduction to Religious Studies that incorporates the autobiographies and/or biographies of contemporary people representing different religious perspectives and walks of life. The course focuses particularly on religion's meaning and function in culture and such identity-shaping experiences as violence and persecution.

3 lecture hours, 0.5 course.

### **SOCIOLOGY 0010A/B**

#### **Understanding Society: Social Life and Social Inequality**

This course considers how social forces impact people's everyday lives. Topics include sociological theory, research methods, culture, socialization, crime and deviance, social interaction, social structure, groups, social class, race, gender, and sexual orientation.

3 lecture hours, 0.5 course.



## Preliminary Year Course List

### **SOCIOLOGY 0011A/B**

#### **Understanding Society: Social Institutions and Social Change**

This course explores different social institutions and the dynamics of social change. Topics include the sociological perspective and research techniques, families, education, religion, health, mass media, aging, the economy and work, population, collective behaviour, and urbanization.

3 lecture hours, 0.5 course.

### **SPANISH 1030**

#### **Spanish for Beginners**

Introduction to understanding, speaking, reading, and writing Spanish with emphasis on oral skills. Intended for students with little or no previous knowledge of Spanish.

4.0 hours, 1.0 course.

### **WRITING 1020F/G**

#### **Introduction to University Essay Writing**

A practical introduction to the basics of successful academic writing, designed for first-year students in all disciplines. Topics will range from grammar, sentence structure, and paragraphing to the principles of scholarly argument and research.

3 lecture/tutorial hours, 0.5 course.

**The following courses are restricted to students admitted into the Preliminary Year Program with an English Language Proficiency course requirement:**

### **SPEECH 0005W/X**

#### **Introduction to Speech**

This course introduces academic speaking and listening skills to international students through readings and speech manuscripts in order to develop oral communication skills. Students are expected to speak frequently and improve their skills of writing and presenting effective speeches.

8 class/lecture hours, 2 tutorial hours, 1.0 course.

### **WRITING 0005W/X**

#### **Critical Reading and Effective Writing**

This course introduces international students to academic reading skills and broadens their vocabulary base in order to provide a strong foundation for writing and responding critically to what has been read. Topics to be covered include context clues, detecting main idea(s), supporting details, dictionary use, word collocations, and academic discussions.

6 class/lecture hours, 2 tutorial hours, 1.0 course.

### **WRITING 0010F/G**

#### **Fundamentals of Academic Writing for International Students**

This course will introduce academic writing skills to international students. Topics covered includes grammar, sentence and paragraph structure, topic sentences and thesis statements, introductions and conclusions, revision, the appropriate use of source materials and plagiarism, and the different kinds of academic essays.

3 class/lecture hours, 1 tutorial hour, 0.5 course.

### **ENGLISH 0005W/X**

#### **English for Academic Purposes**

Combines communication skills through a cross-curricular approach. Students explore complex content from a range of subject areas to gain the foundation required to purposefully read in order to present information and formulate written arguments. Students engage in critical and analytical thinking through readings, and develop listening strategies through class discussions.

8 class/lecture hours, 2 tutorial hours, 1.0 course.

### **WRITING 0015F/G**

#### **Advanced Academic Writing for International Students**

This course will continue to develop the academic writing skills of international students by concentrating on research skills and incorporating citations through the writing process with review of principles of strong arguments and research. Students will also focus on fundamental rules of grammar and apply these to written work.

3 class/lecture hours, 1 tutorial hour, 0.5 course.