

VANIER COLLEGE
CENTRE FOR CONTINUING EDUCATION

COURSE DESCRIPTIONS
WINTER 2024

BIOLOGY

HUMAN BIOLOGY

101-901-VA

Note: For Social Science students only.

This course is intended for non-science students and is the recommended university prerequisite for some psychology programs. This course will provide a grounding in the basic principles of human biology, with a view to establishing a conceptual framework within which the functioning of the human organism may be more readily understood. Emphasis will be placed on the following areas of human biology: Our Cells and How They Function: concepts of cell anatomy and physiology, as well as cell division and metabolism; the Systems of the Body: special emphasis will be put on the two control systems - the nervous system and the endocrine system; Heredity: the study of basic molecular and human genetics will be used to explain heredity patterns; and Reproduction and Embryology: the concepts of reproduction, embryology and birth will be introduced to the student. Note: this course is recommended for students planning to study Psychology at McGill or Concordia. It is required by students planning to study Psychology at a Quebec French university.

GENERAL BIOLOGY 1

101-NYA-05

Prerequisite: 202-NYA

This course acquaints student with the basic principles of Biology. Emphasis is placed on structural and functional organization of life, the evolutionary diversity of living things, and ecological relationships within the biosphere. Laboratory exercises focus on developing scientific proficiency within the context of these topics.

GENERAL BIOLOGY 2

101-HTK-05

Prerequisite: 101-NYA

This course is intended primarily for science students in their third or subsequent semesters. The aim of this course is to give students an understanding of the functional and organizational unity of life from the molecular to the organismal level. Emphasis is placed on membrane phenomena, and cell signaling, energy transduction and cellular metabolism, photosynthesis, proteins and nucleic acids, gene expression and regulation, biotechnology and genomics. These study areas will also be related to some mammalian organ systems and their physiology, including the nervous, endocrine, and immune systems. Note: This course is compulsory for some university programs.

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CHEMISTRY

SECONDARY 5 CHEMISTRY

Remedial Activities CH 504

202-001-RE

Prerequisites: Secondary 4 Science STE 404 or SE 402 or High School Physical Science 436 or Cegep Physical Science 105-003 or 982-003

Topics include: symbols, formulas, equations, the mole, stoichiometry calculations, states of matter, gas laws, rates of reaction, equilibria, acid-base and redox reactions, electrochemical cells.

GENERAL CHEMISTRY

202-NYA-05

Prerequisites: High School Chemistry 534 or Cegep Chemistry 202-001

Topics include: stoichiometry; nomenclature; atomic structure; the periodic table; chemical bonding; molecular geometry; thermochemistry; gas laws and the kinetic theory of gases; condensed phases and phase changes; nuclear chemistry and descriptive chemistry.

CHEMISTRY OF SOLUTIONS

202-NYB-05

Prerequisite: 202-NYA

Topics include: introduction to thermodynamics; solution processes; chemical kinetics; chemical equilibria; acids and bases; oxidation and reduction; and electrochemistry.

ORGANIC CHEMISTRY 1

202-HTJ-05

Prerequisite: 202-NYA & Co-requisite 202-NYB

This course serves as an introduction to organic chemistry. Topics include: bonding; isomerism; conformational analysis; stereochemistry; the properties and reactions of alkanes, alkyl halides, alkenes, alkynes and aromatic compounds.

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COMMERCE

BUSINESS LAW

401-402-VA

401-HTD-03

Prerequisite: 401-100 for 401-402 only

This course will introduce the student to the legal principles governing business activity within the province of Quebec. Students will learn the difference between the legal system practised in Quebec and the legal system practised in the rest of Canada. An overview of the court structure and the court procedures will also be included. Certain legal concepts such as civil responsibility, ownership, contracts and bankruptcy will be examined in some detail. Students will benefit through increasing their legal knowledge and understanding and thereby improve their long term legal welfare.

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COMMUNICATIONS

PHOTOGRAPHY

500-101-VA

500-HTA-VA

This is a hands-on media art course in which students will be introduced to technique and the importance of process in photography. Students will learn how to handle a digital SLR camera (provided by the college) to compose photographic images, perform digital editing procedures in Photoshop, and utilize high-resolution printers to create printed photographs. Through various assignments, lectures, presentations, discussions and field trips, students will become familiar with the fundamentals and subtleties of the medium of photography. This includes an ongoing examination of students' work in order to acquire the skills of assessing a photograph. The student will develop a basic understanding of composition and design, and how to generate and interpret creative ideas. They will also be exposed to the language and terminology specific to the photography and use these as they develop the skills required for critical self-reflection. Work sessions with the teacher in the Photography Mac Lab help assure that each student becomes competent in all the technical aspects of the camera and printing processes. This course utilizes the Photography Mac Lab as well as the Photography area facilities.

MODERN CINEMA

530-111-VA

530-HSB-VA

This course explores contemporary filmmaking from the post-war period onward. It was during the 1960s that international cinema broke with past traditions, reflecting emerging cultural revolutions worldwide. French New Wave and Auteur Theory define this pivotal moment. European, International, and independent cinema will be viewed in relation to North American cinema, and how developments reveal cultural and social changes. Students will explore the language, codes and conventions of these revolutions in cinema.

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ECONOMICS

MACROECONOMICS

383-920-VA

383-HSA-03

The course will enable students to identify the key concepts in economics and the main measures of economic activity. Students will learn how the market system functions and will explore the role of government policies which attempt to stabilize the economy. The course will examine the role of money and financial institutions in the domestic economy and on the international stage.

PRINCIPLES OF MACROECONOMICS

383-110-VA

This course aims to introduce the student to the main economic questions that societies face. Principles of Macroeconomics will help the students understand how different economic actors make decisions and interact in different markets. Also, this course will show how these interactions shape the economy as a whole. We will therefore study economic performance with use of economic indicators such as a country's income per capita and economic growth, unemployment, inflation, and interest rates. Furthermore, we are going to analyze how economic policies, both monetary and fiscal, affect economic performance and societal wellbeing.

MICROECONOMICS

383-200-VA

383-HTB-03

Prerequisite: 383-920 for 383-200 only

This introductory course, based on lectures and class discussions, is concerned with the study of the behaviour of individual economic units. The course focuses on the following: how product prices are determined, decision making by business enterprises, costs of production, role of government in business and agriculture, competition, monopoly, oligopoly and imperfect market structures, employment and pricing of resources

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ENGLISH

INTRODUCTION TO COLLEGE ENGLISH

603-101-MQ

This course is designed to develop the inter-related skills of reading and writing. It aims to assist the student in improving fluency and confidence in written expression and reading comprehension. The student can expect particular emphasis on practical work and will be expected to submit written work on a regular basis. The literature component of this course will be chosen by individual instructors. The course will provide a thorough grounding in the fundamentals of the essay-writing process: thesis statements, paragraph development, transitions, conclusions, drafting and revision, editing and proofreading. To succeed in this course, students must complete the course readings and assignments, including the final analytical essay of at least 750 words (LIA). Enrolment is limited so that students will receive individual attention.

ENGLISH 102 - LITERARY GENRES

603-102- MQ

Prerequisite: 603-101

These courses focus on one or more of the basic literary genres: fiction, drama, poetry and the essay. Different types of Literary Genres courses that have been offered in the department include courses on Shakespeare, modern poetry, the memoir, the novel, Gothic literature, the short story, detective fiction and science fiction, to name a few. Students in Literary Genres courses will continue to develop the analytical reading, organizational and expression skills introduced to students in 603-101 courses. To succeed in this course, students must complete the course readings and assignments, including the final analytical essay of at least 1000 words (LIA). This final essay should demonstrate knowledge of the major literary elements, formal characteristics and literary and rhetorical devices of the text(s) being analyzed. This essay should also demonstrate use of appropriate terminology and thorough revision of form and content.

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ENGLISH 103 - LITERARY THEMES

603-103-MQ

Prerequisite: 603-101

These courses focus on one or more major themes or ideas in the literary works under examination. Different types of Literary Themes courses that have been offered in the English Department include courses on Holocaust literature, the vampire myth, an Introduction to Romanticism, themes in African-American literature, the irrational in Canadian literature, the American Dream, and the British imagination, among many others. As with Literary Genres courses, students in the Literary Themes course will continue to develop the analytical reading, organizational and expression skills introduced to students in 603-101 courses. To succeed in this course, students must complete the course readings and assignments, including the final analytical essay of at least 1000 words (LIA). This essay should demonstrate knowledge of the major themes, formal elements and literary and rhetorical devices of the text(s) being analyzed. This essay should also demonstrate use of appropriate terminology and thorough revision of form and content.

ENGLISH – BLOCK B

603-HSZ-VA

Prerequisite: 603-101

The HSZ (Block B) course reinforces general college level reading and writing abilities within the context of the General Education and College English curriculum. Teaching and learning activities in Block B courses develop skills helpful to students in various programs such as the ability to analyze and write effectively about literary works. Block B courses offered through Continuing Education include students from a variety of programs, and thus the learning activities will not be directed to one specific program. Different types of Block B courses that have been offered in the past include courses on Language and Learning in Literature, Science Fiction and the Fiction of Sciences, and many others. Students taking the Block B course will continue to develop the analytical reading, organizational and expression skills introduced to students in the Block A courses. To succeed in this course, students must complete the course readings and assignments, including a final discourse of at least 1000 words (LIA) and an oral presentation.

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FRENCH

FRENCH FOR NON-FRANCOPHONES 1

602-011-VA

French Placement

Ce cours est préparatoire au cours French for Non-Francophones 2 (602-012-VA) et au cours Mise à niveau pour Français, langue seconde de la 5e secondaire (602-008-VA). Il s'adresse à des élèves qui n'ont aucune connaissance du français. Ce cours s'adresse plus particulièrement à des élèves qui ont complété leurs études secondaires à l'extérieur du Québec et dont la langue maternelle n'est pas le français. Les élèves enrichiront leur vocabulaire et acquerront des notions de base en grammaire tout en se familiarisant avec certains aspects constitutifs de la culture québécoise et en s'ouvrant à la francophonie. L'exploration de thèmes sociaux permettra aux élèves de découvrir différentes catégories de textes ainsi que des productions audio et vidéo et les amènera à s'exprimer, à l'oral comme à l'écrit, sur les sujets abordés en classe

FRENCH FOR NON-FRANCOPHONES 2

602-012-VA

Prerequisite : 602-011

S'intégrer efficacement à la société québécoise implique de manier la langue française avec aisance. Ce cours s'adresse à des élèves ayant du mal à comprendre et à rédiger des textes brefs. Il leur donnera la chance de développer leur connaissance de la langue française afin de produire et d'interpréter des énoncés simples (oraux et écrits). Ce faisant, les élèves se familiariseront avec la richesse de la culture québécoise et de la francophonie. Nous aurons principalement recours à de brefs segments audio et à des textes concis adaptés pour des personnes allophones, abordant des thèmes liés à la vie quotidienne comme l'identité, l'emploi, le voyage, etc.

602-112-VA

Prerequisite : French placement

S'intégrer efficacement à la société québécoise implique de manier la langue française avec aisance. Ce cours s'adresse à des élèves ayant du mal à comprendre et à rédiger des textes brefs. Il leur donnera la chance de développer leur connaissance de la langue française afin de produire et d'interpréter des énoncés simples (oraux et écrits). Ce faisant, les élèves se familiariseront avec la richesse de la culture québécoise et de la francophonie. Nous aurons principalement recours à de brefs segments audio et à des textes concis adaptés pour des personnes allophones, abordant des thèmes liés à la vie quotidienne comme l'identité, l'emploi, le voyage, etc.

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BASIC FRENCH/FRENCH LANGUAGE AND COMMUNICATION

602-100-MQ

French Placement

(Access to this course is determined by Admissions or the French Placement Test) Ce cours est destiné aux étudiants qui ont des lacunes sérieuses en français même s'ils ont réussi leur examen provincial de français du secondaire V. Au moyen de diverses activités d'apprentissage en classe et au laboratoire de langue, l'étudiant sera amené à comprendre des textes écrits de 500 mots et de courts documents sonores, ainsi qu'à produire de courts exposés oraux et à rédiger des textes d'environ 250 mots.

602-101-MQ

French Placement

Ce cours est destiné aux étudiants dont le niveau de compétence en français est moyen et qui éprouvent encore des difficultés dans deux ou trois des quatre habiletés. Les étudiants francophones ne sont pas admissibles au niveau 101 et devraient automatiquement se retrouver au niveau 102. Au moyen de diverses activités d'apprentissage en classe et au laboratoire de langue, l'étudiant sera amené à comprendre des textes écrits médiatiques, littéraires et culturels de 700 à 1000 mots et de courts documents sonores, ainsi qu'à produire de courts exposés oraux et à rédiger des textes d'environ 350 mots.

FRENCH LANGUAGE AND CULTURE

602-102-MQ

French Placement

Ce cours est destiné aux étudiants dont le niveau de compétence en français est assez bon mais qui éprouvent encore des difficultés dans une ou deux des quatre habiletés. Au moyen de diverses activités d'apprentissage en classe, l'étudiant sera amené à comprendre et commenter des textes écrits médiatiques, culturels et littéraires de 2500 à 3000 mots et de courts documents sonores, ainsi qu'à produire de courts exposés oraux et à rédiger des textes d'environ 450 mots.

602-103-MQ

French Placement

Ce cours est destiné aux personnes dont le niveau de compétence en français est bon. À la fin du cours, les élèves devront être capables de traiter d'un sujet culturel et littéraire. Ils ou elles devront savoir analyser des documents médiatiques, des textes culturels et littéraires et rédiger, à l'aide d'ouvrages de référence, un texte d'environ 550 mots. Au programme, divers textes de longueurs variées dont au moins une oeuvre complète du Québec ou de la francophonie.

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ÉPREUVE UNIFORME DE FRANÇAIS

602-UFO-MQ

Non-certificate holders

Le cours Œuvres narratives et écriture s'inscrit dans la formation générale commune. Ce premier cours d'une séquence de trois vise le développement des compétences linguistiques et littéraires en prévision de l'Épreuve uniforme de français. En élargissant l'éventail de vos stratégies de lecture, vous interpréterez des œuvres d'expression française tout en posant un regard ouvert, critique et nuancé sur le monde. La rédaction de paragraphes d'une dissertation explicative enrichira vos capacités d'analyse. Une attention particulière sera également accordée aux stratégies de révision de la langue pour améliorer la qualité de votre français écrit. Ce travail intellectuel vous amènera à développer des outils qui vous aideront tout au long de votre parcours collégial.

FRENCH BLOCK B

602-HSA-VA Prerequisite: 602-100

602-HSW-VA Prerequisite: 602-101

Ce cours permet aux étudiants ayant suivi Langue française I de continuer leurs activités d'apprentissage en classe et au laboratoire de langue afin de comprendre des textes écrits de 500 mots et de courts documents sonores. Ils devront aussi produire de courts exposés oraux et rédiger des textes d'environ 150 mots.

602-HSX-VA Prerequisite: 602-102

602-HSY-VA Prerequisite: 602-103

Ce cours permet aux étudiants ayant suivi Langue française I de continuer leurs activités d'apprentissage en classe et au laboratoire de langue afin de comprendre des textes écrits de 500 mots et de courts documents sonores. Ils devront aussi produire de courts exposés oraux et rédiger des textes d'environ 150 mots

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RENFORCEMENT FRENCH FOR NON-CERTIFICATE HOLDERS

602-014-MQ

French placement

Ce cours est pour les étudiants qui ne détiennent pas de certificat d'admissibilité à l'enseignement en anglais et qui ont obtenu une note inférieure à 70% en français langue maternelle en secondaire 5. Ce cours est préalable au cours : 602-UF0-MQ.

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GEOGRAPHY

WORLD: LAND AND PEOPLE

320-100-VA

320-HSA-03

A review of global patterns of human and physical phenomena introduces the subject fields and approaches of geography, which integrates the themes of the social and earth sciences. Theories explaining the world's bio-physical system will be introduced and geography's spatial and environmental perspective on cultural and socio-economic issues will be explored in both global and regional contexts.

THE WORLD: LAND AND PEOPLE

320-110-VA

A review of global patterns of human and physical phenomena introduces the subject fields and approaches of geography, which integrates the themes of the social and earth sciences. Theories explaining the world's bio-physical system will be introduced and geography's spatial and environmental perspective on cultural and socio-economic issues will be explored in both global, regional and local contexts.

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HISTORY

WESTERN CIVILIZATION

330-910-VA

330-HSA-03

This course is intended as a general survey of Western history from its ancient roots and the emergence of classical civilization to the development of medieval society, the transformations brought about by the Renaissance, as well as other early modern revolutions, and the foundations of modernity.

INTRODUCTION TO WORLD HISTORY

350-110-VA

This course is intended as a general survey of world history from its foundations, including contributions from Antiquity, the Middle Ages, and Early Modern and Modern Periods.

TOPICS IN THE HISTORY OF THE UNITED STATES

330-203-VA

330-HTE-VA

Prerequisites: 330-910-VA for 330-203 only

How does a country become the only super-power in the world? The U.S.A. is certainly unchallenged as the most powerful state now that the Soviet Union has disintegrated. This course will study topics in the history of the United States. Among the topics to be studied are: Colonial America, slavery in the United States, the Civil War, Reconstruction and the Civil Rights Movement, the New Deal and the history of the United States since 1945.

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HUMANITIES

HUMANITIES: KNOWLEDGE

345-101-MQ

For the Knowledge courses the common learning objectives are:

- 1) To recognize the basic elements of a form of knowledge.
- 2) To define the models of organization and utilization of a form of knowledge.
- 3) To situate a form of knowledge within its historical context.
- 4) To organize the main components into coherent patterns.
- 5) To produce synthesis of the main components.

HUMANITIES: WORLD VIEWS

345-102-MQ

ONLINE PILOT -

Use of Webcam: This course requires students to have a working webcam. Classes and assessments may be conducted using MS Teams or Zoom where the teacher can require students to turn on their webcams. Students should contact the course instructor if they require accommodations or have any questions or concerns.

For the World Views courses the common objectives are:

- 1) To describe world views.
- 2) To explain the major ideas, values, and implications of world views.
- 3) To organize the ideas, values and experiences of a world view into coherent patterns.
- 4) To compare world views.
- 5) To describe world views.

HUMANITIES BLOCK B: ETHICAL ISSUES

345-HSZ-VA

Prerequisites: 345-101 or 345-102

In the Ethical Issues courses students will learn:

- 1) To situate significant ethical issues in relation to their appropriate world views and forms of knowledge.
- 2) To explain the major ideas, values and social implications of these ethical issues.
- 3) To organize ethical questions and their implications into coherent patterns.
- 4) To debate ethical issues.

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LANGUAGES

SPANISH

SPANISH LEVEL I

607-111-VA

607-HSA-VA

This is an introductory course in Spanish designed for those who have no knowledge of the language. This course introduces the basic structures of Spanish and helps students develop the ability to understand, speak, read and write the language. Individual participation in class is stressed. Lab activities are included in class time.

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MATHEMATICS

SECONDARY 4 MATHEMATICS

Remedial Activities TS 406 or SN 406

201-016-RE

This course, together with 201-009, is intended for those who do not have High School Functions. Topics include: basic algebra; polynomials, factoring, simplification of algebraic expressions; relations and functions: the Cartesian coordinate system, and straight lines.

SECONDARY 5 MATHEMATICS

Remedial Activities TS 506 or SN 506

201-015-RE

Prerequisites: Secondary 4 Mathematics TS 406 or SN 406 or High School Math 436 or Cegep Math 201-016

This course will begin by reviewing the basic properties of functions and functional notation. It will introduce trigonometric, exponential and logarithmic functions, their properties and graphs; trigonometric identities, arc length, sine and cosine laws; solving linear and quadratic equations and inequalities; graphs of quadratic and square root functions, the absolute value function, properties and graphs of circles.

CALCULUS I - SCIENCE

201-NYA-05

Prerequisites: Secondary 5 Mathematics Remedial Activities 201-015 or High School Math TS 506, SN 506 or 536

This course provides an understanding of the fundamental notions of differential calculus. Topics include: concepts of limit and continuity; the development of the derivative; trigonometric, exponential and logarithmic functions. Applications include graph sketching, related rates and optimization problems relevant to Science.

LINEAR ALGEBRA - SCIENCE

201-NYC-05

Prerequisite: 201-NYA

The aim of this course is to teach students to understand and perform computations involving vectors, matrices, and systems of linear equations. The properties of geometrical vectors in two and three dimensions will be used to motivate similar results in higher dimensions. Systems of equations will be studied in terms of lines and planes. Dot products, cross products and determinants will be used extensively.

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CALCULUS II – SCIENCE

201-NYB-05

ONLINE PILOT -

Use of Webcam: This course requires students to have a working webcam.

Classes and assessments may be conducted using MS Teams or Zoom where the teacher can require students to turn on their webcams. Students should contact the course instructor if they require accommodations or have any questions or concerns.

Prerequisite: 201-NYA

This course deals primarily with integral calculus and its applications. Other topics include a further development of limits (l'Hôpital's Rule), sequences and series, the solution of simple differential equations, and numerical integration.

PROBABILITY & STATISTICS

201-HTH-05

Prerequisite: 201-NYA

The course is offered for students who know Calculus (differentiation and integration). It deals with sample spaces, combinatorics, discrete and continuous random variables, the most important probability distributions, descriptive and inferential statistics.

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METHODOLOGY

QUANTITATIVE METHODS

360-300-VA

The course provides an introduction to the quantitative methods as they are used in the Social Sciences. Within the general context of the scientific approach, the following areas are examined: the construction and organization of data, descriptive measures, the survey as a research tool, relationships between variables, and various social indices. Numbers and quantification are presented as they are found in everyday life and in research in the Social Sciences.

RESEARCH METHODS

300-300-VA

Prerequisite: 360-300

In this course, students will explore scientific methods, as well as the tools and techniques used by social scientists to analyze and research social behaviour. Students will learn how to conduct their own empirical research, on a topic of their choice, and present this research in a written report.

INTEGRATIVE PROJECT

300-301-VA

Prerequisite: 360-300 & 300-300

This course will be organized around a social science issue(s), chosen by the instructor, within which a variety of topics will be explored. Students will learn how the concepts, theories, arguments and methods from different social science disciplines help in the understanding of some of the important issues and events of the day. Students will be encouraged to reflect on the material they have learned up to this point. Such integrative activity will enable the student to write and present an interdisciplinary research project on a topic related to the specific issue.

FUNDAMENTALS OF ACADEMIC WORK IN SOCIAL SCIENCE

300-110-VA

In this mandatory introductory course, students will receive an overview of academic work methods reflecting the diverse fields of the Social Sciences. Furthermore, students will be introduced to the broader social scientific paradigm which is the foundation on which these diverse techniques, methods and knowledge gain their meaning. They will learn to recognize and understand Social Science research. Students will also learn to effectively communicate this information in both written and oral forms, including appropriate use of technology. They will engage in both individual and collaborative work.

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QUALITATIVE METHODS

300-210-VA

Prerequisite: 300-110

Students will learn about the qualitative research process, and use instruments applied by social scientists to analyze and research an appropriate topic to social sciences. After conducting their own empirical research, they will present it in written form.

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PHYSICAL EDUCATION

FITNESS/WALKING INTENSIVE

109-101-MQ

In this class, students will be exposed to the theory behind the value of a healthy lifestyle. By training through walking, a low-stress activity, students will be exposed to the basic principles of training for fitness as well as a variety of exercise options for cardiovascular endurance, muscular strength, muscular endurance as well as flexibility. Students should come to appreciate how walking as a part of a physical activity plan can contribute to their own health and well-being. Walking sessions will take place outdoors. Weekend sessions consist of 16 to 20 km walks around the Montreal area.

FITNESS/VOLLEYBALL

109-102-MQ

In this class students will practice volleyball skills such as the serve, the bump, volley, the spike and the block. Through practice drills and play, student will be able to improve their skills and enjoy the game of volleyball. Students will participate in a variety of game situations and in class tournaments. Students will also be exposed to a variety of fitness activities designed to improve their fitness level and performance. Through goal setting, students should come to appreciate how playing volleyball as a part of a physical activity plan can contribute to their own health and well-being.

FITNESS

109-103-MQ

In this class, students will learn a variety of exercise options for cardiovascular endurance, muscular strength, muscular endurance and flexibility. Students should come to appreciate how these aspects of fitness can contribute to their own health and well-being. Students will also be required to engage in a 6-8 week Personal Fitness Program.

FITNESS/WALKING *INTENSIVE*

109-103-MQ

In this class, students will learn a variety of exercise options for cardiovascular endurance, muscular strength, muscular endurance and flexibility. Students should come to appreciate how these aspects of fitness can contribute to their own health and well-being. Although this is an intensive course, students will also be required to engage in a 6-8 week Personal Fitness Program.

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PHYSICAL SCIENCE

SECONDARY 4 PHYSICAL SCIENCE

105-003-RE

Remedial Activities for Sec 4 Environmental Science and Technology

This course is designed for those who have not taken High School Physical Science (436) and wish to take the Chemistry 006 and/or Physics 006 courses. The course topics include: the atomic structure of matter, the investigation of the electrical properties of matter, magnetic properties of matter, conductivity of solids, simple electrical circuits, measurements of the properties of a simple circuit, isotopes, chemical families, chemical bonding, Lewis structures, acids, bases and salts, electrolytes, concentrations of solutions, pH of solutions, stoichiometric calculations; atomic structure, periodic table, properties of substances; basic electric and magnetic phenomena; electrical circuits: concepts of current, voltage and resistance, Ohm's law, Kirchhoff's laws, and electrical power.

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PHYSICS

SECONDARY 5 PHYSICS

Remedial Activities PH 504

203-001-RE

Prerequisite: Secondary 4 Physical Science STE 404 or SE 402 or Cegep Secondary 4 Remedial Activities 105-003 or 982-003

COREQUISITE: Secondary 5 Mathematics TS 506, SN 506 or 536 or Remedial Activities 201-015

The course topics include: geometrical optics (reflection, refraction, real and virtual images); curved mirrors, lenses, microscopes and telescopes, the eye and corrective lenses; mechanics (Kinematics in one and two dimensions, Newton's laws, simple machines); and work, energy, and conservation of energy (kinetic, elastic and gravitational).

MECHANICS

203-NYA-05

Prerequisite: High School Physics 534 or Secondary 5 Physics Remedial Activities 203-001

COREQUISITE: Calculus 1 201-NYA

This course is designed for those who have a strong physics and math background. Topics include: one and two dimensional kinematics, linear momentum, Newton's laws, work and energy, gravitation, torque and angular momentum. Differential calculus may be used in some topics.

WAVES, OPTICS & MODERN PHYSICS

203-NYC-05

Prerequisite: 203-NYA & 201-NYA COREQUISITE: Calculus 2 201-NYB

The following topics will be covered: simple harmonic motion; damping; resonance; definition and properties of waves; application to sound and matter waves; application to electromagnetic waves: geometrical optics (laws of lenses, mirrors and optical instruments); physical optics (interference and diffraction). In the Modern Physics portion, topics will be chosen from the following: special relativity (postulates, space-time, mass- energy); Quantum Physics (origin and development); Nuclear Physics (Radioactivity, fission, fusion); and Elementary Particles.

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ELECTRICITY & MAGNETISM

203-NYB-05

Prerequisite: 203-NYA & 203-NYC & 201-NYA & 201-NYB

This course will cover the following topics: electric force, field, potential and energy capacitors and DC circuits; magnetic force and field; electromagnetic induction; AC circuits; and Maxwell's equations. The laboratory emphasizes operational techniques and provides you with the opportunity to gain familiarity with electronic equipment common in modern laboratories.

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POLITICAL SCIENCE

INTRODUCTION TO POLITICS

385-100-VA

385-HSF-VA

In this course, students will be introduced to the basic concepts, theories and issues of modern day politics. What does democracy mean in the 21st Century? What are the different parts of government and how do they work? What are the ingredients of International Relations that will help to determine the future of Canada and the rest of the world.

INTRODUCTION TO POLITICS AND GOVERNMENT

385-110-VA

In this course, students will be introduced to the basic concepts, theories and issues of modern day politics. What does democracy mean in the 21st Century? What are the different parts of government and how do they work? What are the ingredients of International Relations that will help to determine the future of Canada and the rest of the world?

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PSYCHOLOGY

INTRODUCTION TO PSYCHOLOGY

350-102-VA

350-HSA-03

This course explores a wide variety of topics that psychologists investigate in their study of human behaviour. Some of the areas covered include: learning and memory, the brain, sleep and dreams, and psychological disorders such as depression, eating disorders and addictions. Basic concepts, methods, theories and major findings in these areas are examined.

AN INTRODUCTION TO PSYCHOLOGY

350-110-VA

This course explores a wide variety of topics that psychologists investigate in their study of human behaviour and mental processes. Some of the areas covered include learning and memory, the brain, sleep and dreams, and psychological disorders such as anxiety and depression. Basic concepts, research methods, theories and major findings in these areas are examined. In addition, Indigenous examples and perspectives will be included. Students will be encouraged to apply psychological concepts to their everyday lives.

SPORTS PSYCHOLOGY

350-301-VA

350-HTQ-VA

Prerequisites: 350-102 for 350-301 only

In this course, the role of psychology in understanding factors that influence participation and performance in sport, exercise, and physical activity will be explored. The effects of fitness and sports participation on personal development and well-being will also be examined. Psychological techniques to reduce anxiety and stress, to increase participation in physical activity, and to enhance performance in sports will be compared.

SOCIAL PSYCHOLOGY

350-207-VA

350-HTF-03

Prerequisite: 350-102 for 350-207 only

This course focuses on social influences on the behaviour, thoughts and feelings of individuals, including those leading to conformity, obedience, attitude change and the shaping of the individual's perception, thought processes and self-concept. Students will use social psychological theories and research findings to analyse and explain personal experience as well as social issues such as prejudice, aggression, leadership and interpersonal attraction.

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ISSUES IN CONTEMPORARY PSYCHOLOGY

350-400-VA

Prerequisite: Any 200 or 300 Psychology course

In this course, you will have the opportunity to learn in-depth about an issue in contemporary psychology. The course will also take you through the steps toward producing a 1500-word research paper on a psychological issue. You will be guided through the process of choosing a topic, developing a thesis statement, and finding the support evidence for it. Your project will permit you to demonstrate your library research skills and your communication skills, both written and oral.

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SOCIOLOGY

INDIVIDUAL AND SOCIETY

387-100-VA

387-HSA-03

Through class discussion and debates, lectures, videos and student research, this course will examine how individuals are shaped by society. The principles, methods and theories of sociology will be used to examine the norms, values, beliefs and material conditions of our lives. Culture, socialization, inequality, race and ethnic relations are among the topics covered.

INTRODUCTION TO SOCIOLOGY

387-110-VA

Through class discussion and debates, lectures, videos and student research, this course will examine how individuals are shaped by society. The concepts, methods and theories of sociology will be used to examine the norms, values, beliefs and material conditions of our lives. The students will comparatively examine contemporary social issues of racism, ethnic diversity, gender stratification, and social stratification within Quebec and Canadian societies.

CRIME AND PUNISHMENT

387-207-VA

387-HTK-VA

Criminology is one of the "hottest" and fastest-growing topics in sociology. Newspapers and TV news cover crime-related stories on a daily basis. In this course, you will analyse the various theories, causes, and social impact of criminal behaviour. You will also learn about key elements in Canadian law and critically examine social inequality in the Canadian Justice system, the characteristics of offenders and victims, and the victim-offender relationship. Principles of punishment, social control mechanisms, and crime prevention measures will complete the course.