

COURSE DESCRIPTIONS

(See pages 21-26 for schedule, room numbers, course hours and registration reference numbers.)

ANTHROPOLOGY

381-101-DW (formerly 381-900-91M) 45 HOURS

381-BWS-03* complementary number

INTRODUCTION TO ANTHROPOLOGY

The course provides an overview of what anthropology encompasses from the history of anthropological thought to the major sub-fields of study including linguistics, biology, culture and archeology. The unique vision and social scientific perspective anthropology brings to the social sciences will be discussed. This course will present an approach designed to introduce students to main areas of the discipline that may be explored more profoundly in the higher level courses. *Text: Introducing Cultural Anthropology. Lenkeit, Roberta. 3rd ed. McGraw Hill, 2007. \$75*

*Students who are taking this course as a complementary should register for course number 381-BWS-03.

BIOLOGY

101-NYA-05 75 HOURS

GENERAL BIOLOGY I

Prerequisite: Chemistry 202-006 or High School Chemistry 534

Recommended: Chemistry 202-NYA-05

Students will learn to recognize the characteristics of life and how evolution gave rise to the great diversity in life forms. The relationship between biological structures and their function will be examined. How cell activities are organized and controlled, as well as cell reproduction and basic genetic principles, will be studied. The structures of ecosystems and the flow of chemicals through the environment will be examined. Students are required to complete an independent scientific research project, to acquire and analyze data using computerized systems, and to communicate effectively using electronic media. *Text: Campbell and Reece, Biology 7th ed. Pearson Benjamin Cummings. \$125*

101-BZE-05 75 HOURS

GENERAL BIOLOGY II

Prerequisite: General Biology I 101-NYA-05 and Chemistry of Solutions 202-NYB-05

Recommended: Organic Chemistry 202-BZF-05

This is a required course for pre-university Health Science students and for Pure and Applied Science students planning to enter biological sciences at university. Topics in cell chemistry, cell structure and function, major metabolic processes, and introductory molecular genetics will be covered. Examples of regulation by nervous and hormonal control mechanisms will be examined to highlight the relationship between structure and function. Laboratory exercises make use of computerized data collection techniques, and are used to complement appropriate lecture material. *Text: Campbell and Reece, Biology 7th ed. Pearson Benjamin Cummings. \$125*

101-921-DW 45 HOURS

HUMAN BIOLOGY

This course begins with an introduction to anatomical terminology, a discussion of the various levels of structural organization that make up the human body, and a brief overview of each system's contribution to homeostasis. This course emphasizes the control systems (nervous and endocrine), reproduction and genetics. The material covered in this course provides a useful background for non-science students planning to study psychology in university. This course can be used as a concentration course in Social Science, but cannot be used in the revised Science programs. *Text: J. Goodenough, B. McGuire, R.A. Wallace. Biology of Humans, 2nd ed. Pearson Education, 2007, \$120.*

BUSINESS ADMINISTRATION

401-101-DW 45 HOURS

INTRODUCTION TO BUSINESS

Students who have passed this course under any of the following numbers should not register for this course: 401-913-91, 401-399-90, 401-801-DW.

The goal of this course is to introduce students to the world of business and the economic environment in which it operates. The students will establish a critical understanding of business topics while also focusing on specific issues related to the business world such as the structure of business, its principal activities, and typical problems. Group discussion and case studies are used in a simplified manner to prepare students for more advanced studies.

401-210-DW 45 HOURS

BUSINESS LAW

Prerequisite: Introduction to Business 401-101

Students who have passed this course under course number 401-425-90 or 401-916-91 or 410-205-DW should not register for this course.

This is a general survey of business law with emphasis on its everyday use. Material covered will be the law relating to persons, property, obligations, contracts, sale, leases, and forms of ownership.

CHEMISTRY

The sequence of courses is 202-006, 202-NYA, 202-NYB, 202-BZF. See the chart on page 46. Students with no chemistry background should take Physical Sciences 982-021.

202-006-06 90 HOURS

INTRODUCTION TO COLLEGE CHEMISTRY

Prerequisite: *Physical Science 982-021 or High School Physical Science 436*

It is recommended that students take Mathematics 201-007 or High School Mathematics 436 prior to this course.

This course is required for all science students who have not taken and passed a Secondary V Chemistry course. Emphasis is on chemical problem solving, formulas and equations, in preparation for Chemistry 202-NYA-05. Topics include metric units, mass and energy, mole conversions, weight relationships, gas laws, chemical nomenclature, types of chemical reactions, and stoichiometry (including solution stoichiometry). Please note: This course prepares students for college-level chemistry and does not count towards graduation. *Text: Zumdahl, Introductory Chemistry. 5th ed. Houghton Mifflin \$100*

Students who took and failed Chemistry 534 in regular day high school should call 931-8731, ext. 1136 before registering.

202-NYA-05 75 HOURS

GENERAL CHEMISTRY

Prerequisite: *202-006 or High School Chemistry 534 or equivalent*

It is recommended that students take Mathematics 201-009 or High School Mathematics 536 prior to this course.

This course is required for all students in pre-university Science. Topics include the basic theories of atoms, bonding and the states of matter; a brief review of stoichiometry; and chemical vocabulary. Emphasis will be placed on the role of the periodic table in predicting properties, and on the nature of the covalent bond. Some discussion of quantum theory, hydrogen-bonding and phase changes will also be included. *Text: Zumdahl, Chemistry. 7th ed. Houghton Mifflin \$112*

202-NYB-05 75 HOURS

CHEMISTRY OF SOLUTIONS

Prerequisite: *Chemistry 202-NYA-05*

It is recommended that students take Calculus I 201-NYA-05 prior to this course.

The concepts and calculations studied in this course are those associated with chemical equilibrium, especially the aqueous solutions. Topics include solution concentrations; kinetics and equilibrium, pH, buffer solutions, solubility product, colligative properties, and free energy. A strong emphasis is placed on computer-based laboratory techniques. *Text: Text: Zumdahl, Chemistry. 7th ed. Houghton Mifflin \$112*

202-BZF-05

75 HOURS

ORGANIC CHEMISTRY I

Prerequisite: *Chemistry 202-NYA-05*

It is recommended that students take Mathematics 201-009 or High School Mathematics 536 prior to this course.

This course is for pre-university science students who plan to study life sciences, chemistry or chemical engineering at university. Topics include the nature of organic compounds, functional groups, nomenclature, stereochemistry, bonding, reactivity and reaction mechanisms of alkanes, alkyl halides, alkenes, alkynes and benzene. *Text: Solomons and Fryhle, Organic Chemistry. 9th ed. Wiley. \$139.*

CINEMA/VIDEO/COMMUNICATIONS

530-224-DW

45 HOURS

530-BWA-03* complementary number

FILM AND CULTURE

This is an introductory course on the cultural significance of film and related media. All societies express important ideas in their art. In the last one hundred years, the cinema has been a dominant art form. This course prepares students to understand the cultural value of the cinema. In viewing films that cover the range of cinema from historical to contemporary films, students learn how to interpret and analyze the social and cultural values expressed.

*Students who are taking this course as a complementary should register for course number 530-BWA-03.

COMMERCIAL PHOTOGRAPHY

Program NTA.1A

Enrolment in the following courses is limited to students admitted to the program. Students must be available Monday to Friday (6:30pm-10:30 pm) and occasionally on Saturday mornings. Classes begin Monday, January 21 at 6:30 p.m. in room 1G.9.

SEMESTER I

581-841-DW

45 HOURS

CAMERA AND LIGHT

This course focuses on basic camera operations, image capture material, and quality and nature of light. It will consist of a combination of theory and practical exercises in a studio and on location. Topics include digital camera operation, lighting equipment, basic lighting techniques, properties of light, optics, lens selection, camera maintenance, camera accessories.

581-851-DW
PROFESSIONAL PHOTO PRACTICES I 45 HOURS

This course focuses on the history of commercial photography and the nature of the profession of photography. It will consist of a combination of theory, practical exercises and classroom presentations. Topics include photographic career options, historically significant photographers, historically significant photographic trends.

570-871-DW 60 HOURS
APPLIED PHOTOGRAPHIC DESIGN I

This course focuses on the application of composition and design principles through practical photographic assignments. It will consist of a combination of theory and practical exercises in a classroom, computer lab and studio. Topics include single person portraits, layout principles, principles of composition, basic typography, spatial organization, and framing.

570-881-DW 60 HOURS
PHOTO IMAGING LAB I

This course focuses on an introduction to bitmap imaging software. It will consist of a combination of theory and practical exercises in a classroom and computer lab. Topics include basic retouching techniques, basic compositing.

SEMESTER II

570-842-DW 60 HOURS
APPLIED STUDIO I

This course focuses on basic studio techniques for photographing people and small products. It will consist of a combination of theory and practical exercises in a studio and on location. Topics include copy photography, basic people photography, basic small product photography, catalogue photography, lens selection, lighting options.

581-852-DW 45 HOURS
PROFESSIONAL PHOTO PRACTICES II

This course focuses on photography as a career and basic small business requirements. It will consist of a combination of theory and practical exercises in studio and on location. Topics include marketing principles, the business letter, the business plan, entrepreneurship, small business management.

570-872-DW 45 HOURS
APPLIED PHOTOGRAPHIC DESIGN II

This course focuses on more complex design principles and the proper use of shadow and light to convey a visual message. It will consist of a combination of theory and practical exercises in a classroom, computer lab and studio. Topics include advanced design principles, negative/ positive space, creativity, shooting to layout.

570-882-DW 60 HOURS
PHOTO IMAGING LAB II

This course focuses on intermediate level bitmap imaging software and basic film and paper processing. It will consist of a combination of theory and practical exercises in a computer lab and in a photographic darkroom. Topics include intro to colour management systems, digital image manipulation, conventional film processing and enlarging, darkroom protocol and safety, preparation of chemicals.

SEMESTER III

570-843-DW 60 HOURS
APPLIED STUDIO II

This course focuses on advanced techniques of people and product photography. It will consist of a combination of theory and practical exercises in a studio and on location. Topics include wedding photography, fashion photography, advertising photo-illustration, and editorial photo-illustration.

570-891-DW 45 HOURS
APPLIED LOCATION PHOTOGRAPHY I

This course focuses on an introduction to photography on location. It will consist of a combination of theory and practical exercises on location. Topics include architectural photography, event photography, the photo essay, travelogue photography.

570-861-DW 45 HOURS
PHOTOGRAPHIC MEDIA INTEGRATION

This course focuses on the integration of photo-graphy and electronic media. It will consist of a combination of theory and practical exercises in a classroom and computer lab. Topics include building a simple Web page, FTP software, using the Internet as a promotional tool, using the internet to deliver images, using speaker support presentation software, introduction to multimedia.

570-883-DW 60 HOURS
PHOTO IMAGING LAB III

This course focuses on advanced techniques of post-capture image production. It will consist of a combination of theory and practical exercises in a classroom and computer lab. Topics include basic retouching techniques, basic compositing techniques, and preparing images for print.

SEMESTER IV

570-844-DW 60 HOURS
APPLIED STUDIO III

This course focuses on creating professional quality studio photographs for use in a commercial portfolio. It will consist of a combination of theory and practical exercises in a studio and on location. Topics include advanced portraiture specialized techniques, working to a layout, food photography.

570-892-DW 45 HOURS

APPLIED LOCATION PHOTOGRAPHY II

This course focuses on advanced techniques of location photography. It will consist of a combination of theory and practical exercises on location. Topics include photography of industrial processes, photography of people in the workplace, advertising photo-illustration on location, and the photo essay.

570-853-DW 45 HOURS

PORTFOLIO CREATION

This course focuses on advanced self promotion and business practices and development of a professional portfolio to demonstrate competence to potential commercial clients. It will consist of a combination of theory and practical exercises in the studio and the computer lab. Topics include portfolio development, portfolio options, creating a "client list", perfecting the business plan, portfolio display and presentation.

570-884-DW 60 HOURS

PHOTO IMAGING LAB IV

This course focuses on advanced digital image processing, advanced image retouching and advanced image output techniques. It will consist of a combination of theory and practical exercises in a computer lab. Topics include preparing images for a portfolio, preparing images for the client, alternative software choices, Internet website creation.

COMPUTER SCIENCE

420-BWC-03 45 HOURS

INTRODUCTION TO COMPUTERS

The architecture of the micro-computer and its uses in business are studied. A knowledge of computer fundamentals is imparted through the use of word-processing and spreadsheet programs.

420-BXC-03 45 HOURS

WEB SITE CREATION

This course will provide students with the skills to design and develop an effective Web site. Issues of page layout, navigation, aesthetics, color, typography, readability, graphics, multimedia, interactivity, and animation will be addressed. Students will also learn to perform critiques of existing Web sites based on design principles, functionality, and audience needs.

ECONOMICS

383-101-DW (formerly 383-920-90 M) 45 HOURS

INTRODUCTION TO ECONOMICS

This course introduces students to economic systems, the great economic thinkers, the different schools of thought, and the basic concepts and theories of economics. Students will become familiar with introductory tools, methods, and models of economic analysis, as well as recognize their limitations. Applying different perspectives and relying on current and historical data, the course exposes students to Canada

and Quebec's major macroeconomic problems such as unemployment, recessions, inflation, and the public debt. Students will learn how governments can use fiscal, monetary, and trade policies to reduce domestic economic problems. The course prepares students to critically assess government economic policies and economic information in the news media. This is a required course for all students in Social Science and a prerequisite for all the other courses in economics.

Text: James, E. Introduction to Economics. Revised 5th ed. Pearson. \$100

383-201-DW (formerly 383-921-91M) 45 HOURS
MICROECONOMICS

Prerequisite: Introduction to Economics 383-101 or 383-920

This course introduces students to concepts and theories that explain how households and firms behave in different markets. The assumptions of each theory discussed in the course will be clearly stated and its weaknesses pointed out. Topics covered include market structures, supply and demand, consumer behaviour, behaviour of the firm, production and costs, and the determination of equilibrium price and output in different markets. The course attempts to analyze contemporary economic issues and problems. Using concepts and theories, students will analyze how individuals and companies react to changes in government policy such as subsidies, minimum wages, and price controls. The course presents a theory that explains the determination of incomes such as wages, rent, interest and profits. Students will learn how to analyze concrete economic problems by using the appropriate concepts and theories. *Text: Sayre, John and Alan Morris. Principles of Microeconomics. 4th ed. McGraw-Hill Ryerson, 2004. \$85*

ENGLISH

Students who have not completed an English course at Dawson College, or an English course at the composition or literature level at another English CEGEP, must do a placement test before their registration date. See page 15. Students at the beginner level should ask about non-credit courses. See back pages.

603-206-84 ENGLISH USAGE: PROSE II 90 HOURS

603-926-84 LINGUISTICS: ENGLISH II

Double credit course - Students must register for both 603-206-84 and 603-926-84: two evenings/week.

Prerequisite: placement test

These courses teach the basic skills of listening, speaking, reading, and writing to students who have been working or studying in English for less than five years. The courses build on skills already acquired: study of sentence structure, exercises in sentence building, reading skills, vocabulary development, oral practice through discussion and an introduction of simple composition forms. (These courses prepare students for Preparation for College English and cannot be applied for credit towards a D.E.C.)

603-002-06 90 HOURS

PREPARATION FOR COLLEGE ENGLISH II

Prerequisite: 603-206/926 or placement test

Students whose placement is 603-001 Preparation for College English I may take this course.

This preparatory course presents the basics of composition to intermediate students of English, emphasizing the planning, drafting, and revision of essays. Classes will focus on word usage, tenses, grammar, prepositions, transitions, sentence structure, and paragraph development. Upon successful completion of the course, students should be able to read and understand a college-level text and write a coherent, logically organized three-paragraph essay, which will include a thesis statement, supporting points, appropriate transitions and a conclusion.

Please note: This course prepares students for college-level English (Writing English 603-101) and does not give credit towards graduation requirements.

603-101-04 60 HOURS

**INTRODUCTION TO COLLEGE ENGLISH:
WRITING ENGLISH**

Prerequisite: 603-001 or 603-002 or placement test

This course is designed for students whose first language is not English and who have been educated in English for less than five years. Students are introduced to the study of literature at the college level, with special emphasis on vocabulary building, correct sentence structure, grammar, idiom and critical thinking. Students will learn how to read a variety of literary works and how to write short analytical essays about literature. Class time will be spent on discussion and practice of reading, writing, research, and speaking skills. By the end of the course, students must be able to write a 750-word analytical essay in college-level English.

603-101-04 60 HOURS

**INTRODUCTION TO COLLEGE ENGLISH:
EFFECTIVE READING & WRITING**

Prerequisite: placement test

This course introduces students to the study of literature at the college level, with special emphasis on vocabulary-building, study skills, critical thinking, reading for literal and metaphorical meaning, and writing to communicate ideas. Students will learn how to read a variety of literary works and how to write short analytical essays about literature. Class time will be spent on discussion and practice of reading, writing, research and speaking skills. By the end of the course, students must be able to write a 750-word analytical essay in college-level English.

603-101-04 60 HOURS

INTRODUCTION TO COLLEGE ENGLISH

Prerequisite: placement test

After taking this course, students should be able to analyze and produce written and oral work at an advanced level. To this end, students will learn the appropriate use of words, correct syntactical usage, and strategies for the development of ideas. As well, they will learn to recognize and analyze a variety of literary forms. Students will also learn to develop their ideas into arguments and theses, to organize them and to edit their work. By the end of the course, students will be able to write a 750-word analytical essay in college-level English.

603-102-04 60 HOURS

LITERARY GENRES

Prerequisite: 603-101

Students may take 603-103 before 603-102.

This course will examine selected works of literature of a single genre or several genres. The conventions of the genre(s), as well as the techniques and devices employed by authors to effect meaning, will be the focus of classroom activities. Students will continue to practice writing critical essays.

603-103-04 60 HOURS

LITERARY THEMES

Prerequisite: 603-101

Students may take 603-103 before 603-102.

This course looks at selected works of literature with particular reference to their cultural contexts and thematic developments. Students will also learn to write a critical essay of thematic analysis.

603-BXE-04 60 HOURS

APPLIED THEMES IN ENGLISH

It is recommended that students take 603-101, 603-102 and 603-103 prior to this course.

This course is designed to help students who have already completed 101, 102 and 103 to further develop their skills in reading, writing, speaking and researching. Through the continuing study of literature, through the writing of reports, précis, essays, and résumés, and through oral and visual presentations, students will practice some of the forms of communication appropriate to their given areas of study. Students will produce a 1000-word research paper or equivalent on a topic related to their areas of study.

FINE ARTS

511-905-DW 45 HOURS

511-BXA-03* complementary number
PAINTING AND CREATIVE EXPRESSION

This course focuses on contemporary and historical modes of artist production. In particular, students will learn colour mixing and the use of grounds, glazes, stains, and washes. Students will further explore colour harmonies and the relationship between figure and ground. Students will also learn to relate to works of contemporary artists and paintings of various periods and how to critique a work of art. Approximate cost of materials: \$100.

*Students who are taking this course as a complementary should register for course number 511-BXA-03.

FRENCH

Students who have not completed a French course at Dawson College or at another public CEGEP must write a placement test before registering. Please see page 15. Students at the beginner level should ask about non credit courses. See back pages.

Block A One course only	Block B one course only		
	Creative Arts & related technology programs	Social Science & related technology programs	Science & related technology programs
¹ 602-100-03->	602-BXB	602-BXB	602-BXB
602-101-03->	602-BXD	602-BXG	602-BXF
² 602-102-03->	² 602-BXY	² 602-BXK	² 602-BXJ
² 602-103-03->	² 602-BXN	² 602-BXU	² 602-BXZ

¹ Some students may be required to take additional courses before qualifying for 602-100 (Basic French).

² Offered in day division and summer school only.

As part of the requirements for any D.E.C. program, students must complete two French courses: one from a group of courses called "Block A", the other from a group of courses called "Block B". Students must register for the Block B course that is appropriate for both their level and their program. For example, if a student has completed French 602-101 and intends to graduate from Creative Arts, he/she must register for French 602-BXD. Please consult the chart.

602-202-92 45 HOURS

ELEMENTARY FRENCH II

Prerequisite: placement test

To qualify for this course students must demonstrate a very basic understanding of spoken and written French. The course begins by building on that understanding and continues by allowing students to progress sufficiently to permit entry into the next level of French (Elementary French III). This course does not contribute to the fulfillment of college graduation requirements in French.

602-302-92 45 HOURS

ELEMENTARY FRENCH III

Prerequisite: 602-202-92 or placement test

This course consolidates the skills and knowledge developed in Elementary French II. The course allows students to progress to Elementary French IV and does not contribute to the fulfillment of college graduation requirements in French.

602-202-92 ELEMENTARY FRENCH II 90 HOURS

602-302-92 ELEMENTARY FRENCH III

(Students must register for both courses)

To qualify for this course students must demonstrate a very basic understanding of spoken and written French. The course begins by building on that understanding and continues by allowing students to progress sufficiently to permit entry into the next level of French (Elementary French IV). This course does not contribute to the fulfillment of college graduation requirements in French.

602-302-92 ELEMENTARY FRENCH III 90 HOURS

602-402-92 ELEMENTARY FRENCH IV

(Students must register for both courses)

Prerequisite: 602-202-92 or placement test

This double credit course builds on the skills and knowledge developed in Elementary French II and prepares students for French Upgrading (602-001). It does not contribute to the fulfillment of college graduation requirements in French.

602-402-92 ELEMENTARY FRENCH IV 45 HOURS

Prerequisite: 602-302-92 or placement test

This course consolidates the skills and knowledge developed in Elementary French III. The course allows students to progress to French Upgrading (602-001) and does not contribute to the fulfillment of college graduation requirements in French.

602-001-03 45 HOURS

FRENCH UPGRADING

(formerly Préparation au français du collégial)

Préalable: 602-402 ou test de classement

Ce cours s'adresse aux élèves qui ont une connaissance limitée du français oral et écrit. Des exercices variés, tant oraux qu'écrits, leur apprendront à utiliser les techniques de base qui leur permettront de combler leurs lacunes en français. Ils pourront ainsi atteindre le niveau du cours 602-100-03. Ce n'est pas un cours pour débutants. Pour réussir ce cours, les élèves devront atteindre les objectifs des quatre compétences langagières: expression orale et écrite ainsi que compréhension orale et écrite.

Please note: This course prepares students for college-level French (602-100) and does not count towards graduation.

602-100-03 45 HOURS

BASIC FRENCH (formerly Français de base)

Préalable: 602-001 ou test de classement

Ce cours s'adresse aux élèves qui ont une faible connaissance du français oral et écrit. Des exercices divers serviront à développer les quatre habiletés langagières: la compréhension, l'expression orale, la lecture et l'écriture.

Please note: Students who have completed 602-101-03, 602-102-03 or 602-103-03 cannot apply this course for credit towards a D.E.C.

602-BXB-03 45 HOURS

COMPRENDRE ET MIEUX S'EXPRIMER

Préalable: 602-100

Ce cours, qui est la suite du cours 602-100-03, vise à rendre l'élève capable de communiquer (parler, lire, comprendre et écrire) avec une certaine facilité. Il prend en considération les connaissances des élèves, notamment celles acquises dans le cours 602-100-03.

602-101-03 45 HOURS

FRENCH LANGUAGE AND COMMUNICATION

(formerly Langue française et communication)

Préalable: test de classement

Ce cours s'adresse aux élèves qui ont une connaissance moyenne du français oral et écrit. Il leur permettra de communiquer en français avec une certaine aisance. À la fin de ce cours, les élèves seront capables d'interpréter et de produire diverses communications orales et écrites.

Please note: Students who have completed 602-100-03, 602-102-03 or 602-103-03 cannot apply this course for credit towards a D.E.C.

602-BXD-03 45 HOURS

VISIONS ACTUELLES

OR

602-BXF-03 45 HOURS

ASPECTS DE LA SCIENCE ET DES TECHNIQUES

OR

602-BXG-03 45 HOURS

ACTUALITÉS DES SCIENCES HUMAINES

Préalable: 602-101

Ce cours, qui est la suite du cours 602-101-03, met à la disposition des élèves les moyens de s'exprimer aisément en français, oralement et par écrit, dans le cadre de la discipline qui leur est spécifique par des oeuvres relevant de leur domaine de spécialisation. À la fin du cours, les élèves devraient être en mesure de fonctionner en français sur le plan professionnel.

HISTORY

330-101-DW (formerly 330-910-91 M) 45 HOURS

WESTERN CIVILIZATION

This is a required course for all students in the Social Science Program. The course traces the growth of Western Civilization from its roots in the Judeo-Christian and Greco-Roman traditions to the 20th century. Among the major themes covered are the emergence and influence of key intellectual currents,

social and political revolution, the development of industrial society, the birth of the nation state, imperialism, totalitarianism, and war in the 20th century. Students are introduced to basic concepts such as historical cause and social change, ethnicity, class, religion, and gender, as well as to the major political ideologies.

330-214-DW (formerly 330-972-91 M) 45 HOURS

20TH CENTURY HISTORY: Conflicts and Politics

Prerequisite: Western Civilization 330-101 or 330-910

This course will focus on the Western world and some of its former colonies, from 1914 to 1980, analyzing ideologies and political change. The course will explore concepts such as nationalism, imperialism, racism, communism and fascism. It will include events such as World War I, World War II, the rise of totalitarian regimes, the Cold War, social conflicts, decolonization, the collapse of communism, and the spread of religious fundamentalism. A variety of historical sources and methodologies will be used.

330-314-DW 45 HOURS

APPLIED 20TH CENTURY HISTORY: Revolutions

Prerequisite: Western Civilization 330-101 or 330-910

This course will focus on the topic of revolutions in the 20th century. It will explore one or more of the following themes (to be selected by the instructor) in relation to this central topic. The themes could include nationalism, imperialism, religion, racism, communism and fascism or other "revolutions" such as changes in gender roles and technological advances. The course will focus on showing students how to use both primary and secondary sources and different methodological approaches to analyze the central topic of the course.

HUMANITIES

The recommended sequence of courses is 345-103, 345-102, 345-BXH.

345-103-04 60 HOURS

KNOWLEDGE

For the Knowledge courses the common learning objectives are: to recognize the basic elements of a form of knowledge; to define the modes of organization and utilization of a form of knowledge; to situate a form of knowledge within its historical context; to organize the main components into coherent patterns; and to produce a synthesis of the main components.

345-102-03 45 HOURS

WORLD VIEWS

In the World Views courses the common learning objectives are: to describe world views; to explain the major ideas, values, and implications of world views; to organize the ideas, values and experiences of a world view into coherent patterns; and to compare world views.

345-BXH-03 45 HOURS

**APPLIED THEMES IN HUMANITIES:
ETHICAL ISSUES**

It is recommended that students take 345-103 and 345-102 prior to this course.

In the Ethical Issues courses students will learn: to situate significant ethical issues in relation to their appropriate world views and forms of knowledge; to explain the major ideas, values, and social implications of these ethical issues; to organize ethical questions and their implications into coherent patterns; and to debate ethical issues.

MATHEMATICS

The sequence of courses is 201-007, 201-009, 201-NYA, 201-NYB or NYC. See the chart on page 46.

Students who have not passed High School Mathematics in the last five years, and have not completed any mathematics courses at a Quebec CEGEP, should do a placement test before their registration date. Details on page 15.

201-007-50 90 HOURS
ALGEBRA

Prerequisite: High School Pre-Algebra 514, 574 or 426 or equivalent or department permission

This course can serve as a prerequisite for programs requiring Mathematics 436. It does not replace the Mathematics required for general admission to CEGEP. This course introduces the fundamental operations with algebraic expressions, including products, factoring, long division, combining fractions, laws of exponents and radicals. Linear equations and inequalities in one or two unknowns and quadratic equations are included and their graphing with computer software is introduced. The quadratic formula, introduction to triangle trigonometry and word problem applications are also included. This course prepares students for Functions and Trigonometry (201-009).

201-009-50 75 HOURS
FUNCTIONS AND TRIGONOMETRY

Prerequisite: Mathematics 201-007 or High School Algebra 436, 526 or equivalent

This course prepares students for college-level mathematics and can be used as a prerequisite for programs requiring Mathematics 526 or 536.

This course introduces and/or strengthens some important concepts of algebra. Introduction to functions and their graphs, inverse functions, trigonometric functions, exponential and logarithmic functions and word problem applications. Graphing of these functions with computer software. Continuation of trigonometry covers circular functions, trigonometric equations, laws of sines and cosines and trigonometric identities.

Text: McArthur, George. Functions & Trigonometry. DC Printing. \$20

201-103-DW 75 HOURS
CALCULUS I for Social Science (Commerce)

Prerequisite: High School Functions 526 or Mathematics 201-009 or equivalent

*Please note: Students who also plan to take Calculus II in Continuing Education at Dawson College should register for Calculus I (Science) course 201-NYA-05 (prerequisite High School Math 536 or Math 201-009) and **not** Calculus I (Commerce) 201-103-DW.*

This course focuses on limits and continuity; the derivative and techniques of differentiation; applications of the derivative to the social sciences including curve sketching, related rates and optimization problems; and anti-derivatives. This course is not a substitute for Mathematics 201-NYA-05. *Text: S.T. Tan. Applied Calculus for the Managerial, Life, and Social Sciences. 6th ed. Thomas Brooks/Cole Publishing. \$135.*

201-NYA-05 75 HOURS
CALCULUS I

Prerequisite: High School Functions 536 or Mathematics 201-009 or equivalent

Students who require 201-103 or 201-104 may take this course.

*Please note: Students who also plan to take Calculus II in Continuing Education at Dawson College should register for Calculus I (Science) course 201-NYA-05 (prerequisite High School Math 536 or Math 201-009) and **not** Calculus I (Commerce) 201-103-DW.*

This course includes limits and continuity, differentiation, applications of the derivative to curve sketching, maximum and minimum word problems and related rates problems, anti-differentiation and the indefinite integral. *Text: Larson, Hostetler and Edwards. Calculus of a Single Variable. 8th ed. Houghton Mifflin \$115*

201-NYB-05 75 HOURS
CALCULUS II

Prerequisite: Calculus I 201-NYA-05 or equivalent

Students who require 201-203 or 201-204 may take this course only if they have completed NYA.

This course offers further topics on the definite integral and its applications, techniques of integration, indeterminate forms and l'Hôpital's Rule, improper integrals, convergence of infinite series. *Text: Larson, Hostetler and Edwards. Calculus of a Single Variable. 8th ed. Houghton Mifflin \$115*

201-NYC-05 75 HOURS
LINEAR ALGEBRA

Prerequisite: High School Functions 536 or Mathematics 201-009 or equivalent

It is recommended that students take Calculus I (201-NYA-05) prior to this course.

Students who require 201-105 or 201-106 may take this course only if they have completed H.S. Math 536 or Math 201-009.

This course includes the study of systems of linear equations and elementary operations, matrices and determinants, vectors, lines, planes and vector spaces. *Text: Anton, Howard. Elementary Linear Algebra (abridged version) 9th ed. \$65*

PHOTOGRAPHY

See Commercial Photography pages 30 to 32.

PHYSICAL SCIENCE

982-021-06 90 HOURS

PHYSICAL SCIENCE

It is recommended that students take Mathematics 201-007 or High School Mathematics 436 prior to this course.

This course is designed for students who have not taken Physical Science 436 in high school. The course provides an introduction to the structure of matter, the nuclear atom, the periodic table, chemical and physical properties of matter, acids and bases, chemical nomenclature, types of chemical reactions, calculations of concentrations (mass percent, molarity) and introduction to mechanics, electricity and magnetism. *Please note:* This course prepares students for college-level chemistry and physics and can be used as a prerequisite for programs requiring Physical Science 436. It CANNOT be used for the high school physical science requirement for admission to CEGEP.

Text: Shipman, J., J. Wilson, and A. Todd. An Introduction to Physical Science. 11th ed. Houghton Mifflin. \$100

Note: Students who took and failed Physical Science 436 in regular day high school should call 931-8731, ext. 1136 before registering.

PHYSICS

The sequence of courses is: 203-006, 203-NYA, 203-NYC, 203-NYB. See chart on page 46.

Students with no Physical Science background should take Physical Science 982-021 (see above).

203-006-06 90 HOURS

INTRODUCTION TO PHYSICS

Prerequisite: Physical Science 982-021 or High School Physical Science 436, and Mathematics 201-007 or High School Mathematics 436, or permission of the department

Corequisite: Mathematics 201-009 or High School Mathematics 536

This course is designed for students who have not taken Physics 534 in high school. The content is thus very close to that of Physics 534: the nature and transmission of light, reflection, refraction, lenses, and optical devices. Also mechanics are taught: the effects of forces, kinematics, free fall, friction, simple machines, work and energy. Please note: This course prepares students for college-level physics and does not count towards graduation.

Text: Wilson, Jerry, and Anthony Buffa. College Physics. 6th ed. Prentice Hall. \$105. Includes solution manual

Note: Students who took and failed Physics 534 in regular day high school should call 931-8731, ext. 1136 before registering.

203-NYA-05 75 HOURS

MECHANICS

Prerequisite: Physics 203-006 or High School Physics 534, and Mathematics 201-009 or High School Mathematics 536, or permission of the department
Corequisite: Calculus I 201-NYA-05

Topics include kinematics in one and two dimensions, uniform circular motion, Newton's laws, gravitation, frictional forces, work, energy and power, collisions and conservation of momentum, rotational kinematics and dynamics, torque, angular momentum, and moment of inertia. *Text: Young & Freedman, University Physics with Modern Physics with Mastering Physics. 12th ed. Pearson/Addison Wesley. \$150*

203-NYB-05 75 HOURS

ELECTRICITY AND MAGNETISM

Prerequisite: Mechanics 203-NYA-05 and Calculus I 201-NYA-05

Corequisite: Calculus II 201-NYB-05

It is recommended that students take Waves, Optics & Modern Physics 203-NYC-05 prior to this course.

Topics include electrostatics, Coulomb's Law, electric field and potential, lines of force and equipotentials, Gauss's Law, capacitors and dielectrics, DC circuits, the magnetic field, the laws of Biot-Savart and Ampere, magnetic force on moving charges and currents, torque on current loop, electromagnetic induction and Faraday's Law, inductance, energy density of electric and magnetic fields. *Text: Young & Freedman, University Physics with Modern Physics with Mastering Physics. 12th ed. Pearson/Addison Wesley. \$150*

203-NYC-05 75 HOURS

WAVES, OPTICS & MODERN PHYSICS

Prerequisite: Mechanics 203-NYA-05 and Calculus I 201-NYA-05

Corequisite: Calculus II 201-NYB-05

Topics include: simple harmonic motion, damping, forced oscillations and resonance; waves in material media, including sound waves; beats and the Doppler effect; geometrical and physical optics; introduction to modern physics. *Text: Young & Freedman, University Physics with Modern Physics with Mastering Physics. 12th ed. Pearson/Addison Wesley. \$150*

PSYCHOLOGY

350-101-DW (formerly 350-102-91 M) **45 HOURS**

GENERAL PSYCHOLOGY

This is the first course in the discipline for students and a requirement for all students in the Social Science and Commerce programs. It is a requirement for admission to most university psychology programs. The course is designed to acquaint students with the principles and methods of psychology and to expose them to the various areas encompassed by the field.

350-201-DW (formerly 350-901-91 M) **45 HOURS**

DEVELOPMENT PSYCHOLOGY

Prerequisite: *General Psychology 350-101 or 350-102*

This course will outline the development of the child and how he/she is influenced by heredity, environment, family, school, and social experiences. Emphasis will be placed on the changes that occur in both physical and psychological attributes during childhood. Discussion will also focus on basic concepts and theories related to child development. In addition, developmental processes in adolescence, adulthood, and old age will be considered.

350-302-DW (formerly 350-914-91) **45 HOURS**

INTERACTION & COMMUNICATION

Prerequisite: *General Psychology 350-101 or 350-102*

This course will deal with interpersonal behavior and communication in small groups. Various methods of examining human social interaction will be studied and applied during the course. Other topics include non-verbal communication, body language and group problem-solving exercises.

QUANTITATIVE METHODS

360-300-DW (formerly 360-300-91) **60 HOURS**

QUANTITATIVE METHODS

Prerequisite: *Research Methods 300-300-91*

This is the second of the three methodology courses. It builds on the introduction to social science research covered in Research Methods. This course teaches students to apply statistical tools to the interpretation of data related to contexts of study in the field of social science. The focus of the course is on the analysis of quantitative data as part of the scientific approach. Areas examined are identification of variables, presentation of data, analysis of data using various forms of measurement, determining the nature and link between variables, and estimating the parameters of a given population based on the corresponding statistics obtained from a sample.