

## CERTIFICATE

- One year
- September start
- Burin, Carbonear, Grand Falls-Windsor, Happy Valley-Goose Bay, and Labrador West Campuses

## COURSES

CODE	TITLE	Hrs/wk		
		Cr	Le	La
<b>Semester 1</b>				
BL1170	Principles of Biology I	5	4	3
BL1171	Principles of Biology II	5	4	3
CH1130	Introductory Chemistry I	6	5	3
CH1131	Introductory Chemistry II	6	5	3
CH1140	General Chemistry I	6	5	3
CH1141	General Chemistry II	6	5	3
CH1150	Introductory Chemistry III	6	5	3
CM1120	Critical Reading and Writing I	4	4	0
CM1135	Critical Reading and Writing II (Fiction)	4	4	0
CM1145	Critical Reading and Writing II (Context, Substance, Style)	4	4	0
CM1155	Critical Reading and Writing II (Drama)	4	4	0
CM1165	Critical Reading and Writing II (Poetry)	4	4	0
EC1140	Introduction to Microeconomics	4	4	0
EC1150	Introduction to Macroeconomics	4	4	0
EH1100	Earth Systems	5	4	3
EH1101	Evolution of Earth Systems	5	4	3
EH1102	Concepts and Methods in Earth Sciences	5	4	3
EL1150	Introduction to Folklore	4	4	0
EL1320	Folklore Studies	4	4	0
EL1420	Introductory French I	4	4	1
EL1430	Introductory French II	4	4	1
EL1440	Introductory French III	4	4	1
EL1500	Introduction to Linguistics	4	4	0
MA1104	Algebra and Trigonometry	5	5	0
MA1120	Finite Mathematics I	5	5	0
MA1121	Finite Mathematics II	5	5	0
MA1130	Calculus I	5	5	0
MA1131	Calculus II	5	5	0
MA2150	Linear Algebra I	4	4	0
PH1120	Introductory Physics I	5	4	3
PH1121	Introductory Physics II	5	4	3
PH1130	General Physics I	5	4	3
PH1131	General Physics II	5	4	3
PS1150	Introduction to Psychology I	4	4	0
PS1151	Introduction to Psychology II	4	4	0
SC1150	Principles of Sociology	4	4	0
SC1160	Sociology of Families	4	4	0
SC1430	Labrador Society and Culture	4	4	0
SI1500	Introduction to Physical and Life Science I	5	4	3
SI1501	Introduction to Physical and Life Science II	5	4	3
WM1100	Introduction to Women's Studies	4	4	0

## ACADEMICS

# Comprehensive Arts & Science Transfer: College-University

Comprehensive Arts and Science (CAS) Transfer: College-University program provides students with the opportunity to complete a suite of courses for which they will gain credit from College of the North Atlantic as well as from Memorial University of Newfoundland. It has been developed through an agreement with Memorial; courses identified in this section are developed in collaboration with Memorial's respective departments.

**Note:** In the areas of curriculum content and testing methodologies, these courses are identical to Memorial's.

These introductory courses are designed for students intending to transfer to university after completion of their first year at College of the North Atlantic.

### OBJECTIVES

1. To enhance student access to courses that earn both University and college credits.
2. To provide an opportunity for students to gain University course credit at locations close to their home communities.
3. To allow students to choose career paths with maximum recognition of credit for work completed.

### ENTRANCE REQUIREMENTS

#### 1. High School

Provincial High School Graduation with 60% overall average in the following courses (or equivalents):

- i. English 3201 or English 3202
- ii. Mathematics (2 credits) chosen from

Advanced: 3205  
Academic: 3204

And

2 credits chosen from

Advanced: 2205  
Academic: 2204

- iii. Science (4 credits) two of which must be selected from the following:

Biology 3201  
Chemistry 3202  
Physics 3204  
Earth Systems 3209

The remaining two credits may be selected from 2000 level courses in the above noted subject areas or from Science 1206.

- iv. Either Social Science (2 credits) chosen from:

World History 3201 or 3231

World Geography 3202

or Modern/Classical Language (2 credits) at the 3000 level

- v. Electives

Two credits at the 3000 level in elective courses chosen from the subjects above or from additional courses approved by the Department of Education for offering at the 3000 level for certificate purposes.

#### 2. Comprehensive Arts and Science (CAS) Transition

**Note:** It is important that CAS Transition students who intend to enroll in the CAS Transfer program check course requirements for their intended post-secondary plans. It is strongly recommended that CAS Transition Certificate students complete:

- i. Math Fundamentals MA1040 and MA1041
- ii. Two Science courses chosen from one of the following three combinations:
  - a. Introductory Biology BL1020 and BL1021
  - b. Introductory Chemistry CH1030 and CH1031
  - c. Introductory Physics PH1050 and PH1051

#### 3. Adult Basic Education (ABE)

Adult Basic Education (Level III) Graduation with Degree and Technical Profile including the following courses:

- i. English 3101A, 3101B, 3101C or 3102A, 3102B, 3102C
- ii. Mathematics 1104A, 1104B, 1104C, 2104A, 2104B, 2104C, 3104A, 3104B, 3104C
- iii. Science from one of the following sections:
  - a. Biology 1101, 2101A, 2101B, 2101C, 3101A, 3101B, 3101C
  - b. Chemistry 1102, 2102A, 2102B, 2102C, 3102A, 3102B, 3102C
  - c. Physics 1104, 2104A, 2104B, 2104C, 3104A, 3104B, 3104C

Applicants with Adult Basic Education (Level III) Graduation with a different Profile may be eligible for admission to the program provided the appropriate selection of courses including those outlined above have been completed.

#### 4. Mature Student Status

Applicants who do not meet the education prerequisites of this program, are 19 years of age or older, and have been out of school for at least one year may be considered on an individual basis under the Mature Student Clause.

### REQUIREMENTS FOR COMPLETION

In order to complete the requirements of the Comprehensive Arts and Science Transfer: College-University Certificate program, students must complete 10 courses from the CAS Transfer: College-University suite of courses with a minimum Grade Point Average of 2.00.

**Note:** For purposes of completion of the Certificate, MA1670 Statistics and EP1110 Introduction to Business may also be included in the CAS Transfer: College-University suite of courses. Students must also meet all qualification requirements for the awarding of a Certificate from the college.

Maximum number of CAS Transfer: College-University courses per semester (i.e. Fall; Winter) is five.

# Comprehensive Arts & Science Transfer: College-University – Course Descriptions

**NOTE:** The courses listed below have been developed through an agreement with Memorial; courses identified in this section are developed in collaboration with Memorial's respective departments. These courses, referred to as College-University Suite of Courses, are the courses required for graduation from the CAS Transfer: College-University program and are different from regular college courses that transfer to other post-secondary institutions, as covered by the Council on Higher Education Transfer Guide.

## BL1170 Principles of Biology I

Transferable to MUN Biology 1002

This is the first of two introductory courses developed for credit transfer to Memorial University of Newfoundland. The course is intended to be equivalent to MUN's Biology 1001. The course contains the following subject areas: biology as science, basic biochemistry, introduction to cells, an introduction to metabolism, enzymes, and homeostasis, plasma membrane structure and function (transport), origins of life, diversity classification, and taxonomy of life, and classification of the kingdoms; an introduction to Kingdom Monera, including the use of bacteria as the model for molecular genetics; viruses, introduction to Protists and autotrophic Protists; an introduction to plants including plant evolution, structure, growth, nutrition, transport, and reproduction.

**Prerequisite(s):** None

## BL1171 Principles of Biology II

Transferable to MUN Biology 1002

This is the second of two introductory courses developed for credit transfer to Memorial University of Newfoundland. The course is intended to be equivalent to MUN's Biology 1002. This course continues the discussion of the five biological kingdoms and includes the following subject areas: eukaryotic cell division, heterotrophic Protists, fungi, and animals. The animal discussions include an introduction to animal structure, tissues, organs, and organ systems, bioenergetics, homeostasis, nutrition (digestive systems), circulatory systems, internal transport (circulatory systems), gas exchange systems, excretion and osmoregulatory systems, regulatory systems, nervous systems, support and movement, and reproductive systems.

**Prerequisite(s):** BL1170 or BL1500 or MUN Biology 1001

## CH1130 Chemistry

Transferable to MUN Chemistry 1010

This is an introductory course in chemistry dealing with the fundamental laws of chemistry, the nature of matter and the physical states of matter, the structure of the atom, the electronic structure and the periodic table, the significant figures and scientific notations, measurements and units, writing and balancing chemical reactions, stoichiometry and stoichiometric calculations, chemical bonding, gases and gas law calculations and thermochemistry and thermochemistry calculations.

**Prerequisite(s):** None, but high school chemistry is recommended. However, mathematical skills are required, and students with low marks in high school Level III academic mathematics (less than 70%) are strongly recommended to upgrade their mathematics background before undertaking this course.

## CH1131 Introductory Chemistry II

Transferable to MUN Chemistry 1011

This is a continuation of CH1130. This course will further develop the fundamental concepts of chemistry, with emphasis on physical properties of matter, intermolecular forces, molecular geometry and chemical bonding theory, rate of reaction, chemical equilibrium, acid-base equilibria, precipitation equilibria and electrochemistry. Major topics include: physical properties of matter, molecular geometry, and rate of reaction, chemical equilibrium, acid-based equilibria, redox reactions and electrochemistry.

**Prerequisite(s):** CH1130 or MUN Chem 1010

## CH1140 General Chemistry I

Transferable to MUN Chem 1050

This course is designed for students who have previously studied Chemistry either in high school or university. It is designed to give students a knowledge and understanding of the fundamental chemical concepts which will form the basis for further studies in the field of science. Major Topics are: matter – its properties and measurement, atoms and atomic theory, chemical compounds, chemical reactions, introduction of reactions in aqueous solution, gases and hydrogen, electrons in atom, the Periodic Table and some atomic properties, chemical bonding I: basic concepts, chemical bonding II: additional aspects, liquids, solids, and intermolecular forces, solutions and physical properties.

**Prerequisite(s):** At least 75% in high school Chemistry 3202 and a pass in high school Advanced Mathematics 3205.

**Co-requisite(s):** MA1130 (or MUN Math 1000) or MA2100. A physics course would be helpful, especially for students who did not take Physics in high school.

## CH1141 General Chemistry II

Transferable to MUN Chem 1051

This course is designed for students who may have career interests in chemistry or other fields of science. The course will develop further the fundamental concepts of chemistry, with emphasis on practical applications. It is designed to identify and apply principles as well as provide visualizing of their physical significance. Major topics are: chemical kinetics, principles of chemical equilibrium, acids and bases, additional aspects of acid-based equilibria, solubility and complex ion equilibria, spontaneous change; entropy and free energy, electrochemistry, and descriptive chemistry.

**Prerequisite(s):** CH1140, MA1130 or MA2100, (or MUN Chem 1050, Math 1000 or 1081).

## CH1150 Introductory Chemistry III

Transferable to MUN Chemistry 1031

This course is designed to prepare students who have completed Chemistry 1131 (or MUN chemistry 1011) for second year Chemistry courses. It deals with the topics in greater depth with emphasis on problem solving, as in Chemistry 1141.

**Prerequisite(s):** CH1131 or MUN Chem 1011.

## CM1120 Critical Reading and Writing I

Transferable to MUN English 1080 or 1000

An exploration of literary texts, which will include such forms as poetry, short fiction, drama and the essay. Emphasis is placed on critical reading and writing including analyzing texts, framing and using questions, constructing essays, organizing paragraphs, quoting and documenting, revising and editing.

**Prerequisite(s):** Minimum of 60% in Language 3101 and a minimum of 60% in either Thematic Literature 3201 or Literary Heritage 3202 or English 3201 (minimum of 60%) or meet Memorial's admission requirements or CM1061.

## CM1135 Critical Reading and Writing II (Fiction)

Transferable to MUN English 1101 or 1001

This course is an introduction to such prose narrative forms as the novel, the novella, the story sequence and the autobiography. This course continues the emphasis on critical reading and writing begun in CM1120. It also introduces the student to longer prose narrative, particularly the novel form and to the practices of conducting research.

**Prerequisite(s):** CM1120 or MUN English 1080.

## CM1145 Critical Reading and Writing II (Context, Substance, Style)

Transferable to MUN English 1110 or 1001

This course is an introduction to the writing and analysis of prose. Students will analyze prose writing and practice a number of writing strategies that consider a variety of audiences and purposes. The course furthers the development of writing and analytical skills acquired in CM1120 English and introduces the student to writing intended to critique, persuade, and analyze.

**Prerequisite(s):** CM1120 or MUN English 1080.

## CM1155 Critical Reading and Writing II (Drama)

Transferable to MUN English 1102 or 1001

This course is an introduction to the study of plays, primarily as written texts. Elements of theatre history and dramatic theory and of live performance production processes may be introduced to enhance students' understanding of this uniquely hybrid literature. This course continues to develop the critical reading and writing skills introduced in CM1120.

**Prerequisite(s):** CM1120 or MUN English 1080.

## CM1165 Critical Reading and Writing II (Poetry)

Transferable to MUN English 1103 or 1001

English CM1165 introduces the writing and analysis of poetry. This course continues to develop critical reading and writing skills introduced in CM1120. Students will also learn to develop library/research skills.

**Prerequisite(s):** CM1120 or MUN English 1080.

## EC1140 Microeconomics

Transferable to MUN Economics 2010

This is a course in Microeconomics that is intended to prepare a student to take additional courses in economics which makes use of Microeconomic tools of analysis. In addition, the subject matter of this course will help in understanding some of the concepts, problems, and arguments that are presented in other courses or in the public press. When new projects or changes are announced by the government or the private sector, you will have a set of tools of analysis that will allow you to be more informed as to exactly what is involved in the decision making process; your tool kit will allow you to see some implications that may not be readily apparent to the general public. This will place you in a better position to ask relevant questions, whether you like or dislike the initiative. The course will cover the following topics: Scarcity and Opportunity Cost, Demand and Supply, Elasticity, Short-Run and Long-Run Cost Functions, Perfect competition in the short-run and in the long run, Monopoly.

**Prerequisite(s):** Preferably high school Level III Academic Mathematics or Advanced Mathematics and acceptable score on Mathematics Placement Test or MUN Math 1090

#### EC1150 Introduction to Macroeconomics

Transferable to MUN Economics 2020

This second year equivalent course is designed to introduce students to macroeconomics and is intended to prepare a student to take additional courses in economics and business. Topics that will be covered include national income accounting, aggregate income analysis, money, banking and foreign trade. The course examines the physical and monetary aspects of international trade, money, banking and monetary policy, the gross domestic product, national expenditure components, business cycles and fiscal policy. The emphasis is on Canadian examples where possible.

**Prerequisite(s):** None but strong mathematical skills are required; preferably the same prerequisite as MA1104 (or MUN Math 1090).

#### EH1100 Earth Systems

Transferable to MUN Earth Sciences 1000

A survey of major earth systems, including the interior of the earth, lithosphere, hydrosphere, atmosphere, and biosphere – their structure, composition and interaction.

**Prerequisite(s):** None

#### EH1101 Evolution of Earth Systems

Transferable to MUN Earth Sciences 1001

The evolution of the earth's structure and environment through geological time are explored from the rock and fossil record. Particular emphasis is given to the geological history of North America, especially Newfoundland and Labrador.

**Prerequisite(s):** EH1100 or MUN ES1000

#### EH1102 Concepts and Methods in Earth Sciences

Transferable to MUN Earth Sciences 1002

Introduction to a broad range of concepts concerning the development of the geological record and the Earth; practical methods for collection of field based data; topics in map interpretation and geometric analysis, stratigraphy, paleontology, structure and petrology, designed to develop the skills necessary to understand and prepare geologic maps and other general skills needed to pursue a career in Earth Sciences.

**Prerequisite(s):** EH1100 or MUN Earth Sciences 1000

**Note:** This course is required for all Earth Sciences majors and minors and for all Joint Programs (Earth Sciences) at MUN.

#### EL1150 Introduction to Folklore

Transferable to MUN Folklore 1000

The role that tradition plays in communication, art and society will be discussed through an examination of folklore materials from Newfoundland and Labrador and the English-speaking world. Through assignments students will identify and reflect on folklore in their own lives and the lives of others.

#### EL1320 Folklore Studies

Transferable to MUN Folklore 2401

An examination of the traditional cultures of Europe and North America with special reference to Newfoundland and Labrador. A selection of the following areas will be covered: settlement patterns, architecture, work and

leisure patterns in the folk community, calendar customs, rites of passage, folk religion, folk medicine, language and folk culture, folk costume, foodways and folk art.

**Prerequisite(s):** Normally EL1150 (MUN Folklore 1000) is the prerequisite for the course; this can be waived with special permission of the head of the Folklore Department.

#### EL1420 Introductory French I

Transferable to MUN French 1500

This is an introductory course for students with little or no previous knowledge of French and for those who wish to review the basic vocabulary and structure. The course uses only the present tense and basic vocabulary, and covers the most common situations of daily life.

**Prerequisite(s):** None

#### EL1430 Introductory French II

Transferable to MUN French 1501

This is a course which teaches the use of past tenses and more advanced structures. Students begin to read short texts, to write longer compositions and to explore more complex situations.

**Prerequisite(s):** French EL1420 or MUN French 1500 or High School French 3200.

#### EL1440 Introductory French III

Transferable to MUN French 1502

This course introduces ways of dealing with future and hypothetical situations, and cases where emotion and personal feelings color the issue. The work of composition and intensive vocabulary building continues, and students are expected to engage in more advanced oral practice.

**Prerequisite(s):** EL1430 or MUN French 1501.

#### EL1500 Introduction to Linguistics

Transferable to MUN Linguistics 1100

This course provides a general, fairly non-technical introduction to linguistics. Students will learn basic concepts about the nature of language and its function in communication. Some technical terminology and elementary analysis related to the study of language and linguistics will be introduced.

**Prerequisite(s):** None

#### MA1104 Algebra and Trigonometry

Transferable to MUN Math 1090

This pre-calculus course is designed to strengthen student's skills in basic algebra, review and develop a deeper understanding of the concept of a function and make students aware of the importance of trigonometry. The course also uses technology to enhance the students understanding. After completing this course a student will have the essential prerequisite elements to complete an introductory calculus course.

**Prerequisite(s):** High school Level III Academic Mathematics or Advanced Mathematics and acceptable score on Mathematics Placement Test

#### MA1120 Finite Mathematics I

Transferable to MUN Mathematics 1050

This course is designed to satisfy part of the first year mathematics requirement for prospective teachers in primary and elementary education programs. This course is also suitable for students headed into a non-science area of study.

**Prerequisite(s):** High school Level III Academic Mathematics or Advanced Mathematics and acceptable score on Mathematics Placement Test

#### MA1121 Finite Mathematics II

Transferable to MUN Mathematics 1051

This course is designed to satisfy part of the first year mathematics requirement for prospective teachers in primary and elementary education. This course is also suitable for students headed into a non-science area of study.

**Prerequisite(s):** High school Level III Academic Mathematics or Advanced Mathematics and acceptable score on Mathematics Placement Test

#### MA1130 Calculus I

Transferable to MUN Mathematics 1000

This is an introduction to differential calculus including logarithmic, exponential, and trigonometric functions with applications. This course also includes a brief introduction to integration.

**Prerequisite(s):** High school Level III Academic Mathematics or Advanced Mathematics and acceptable score on Mathematics Placement Test.

#### MA1131 Calculus II

Transferable to MUN Mathematics 1001

This course is an introduction to integral calculus with applications.

**Prerequisite(s):** MA1130 or MUN Math 1000.

#### MA2150 Linear Algebra I

Transferable to MUN Mathematics 2050

Linear algebra is the branch of mathematics dealing with solutions of linear equations, and related ideas of vector spaces and linear transformations. This is a practical, non-calculus course where students learn how to solve systems of linear equations, perform matrix algebra, find eigenvalues, diagonalize matrices, and perform vector geometry.

**Prerequisite(s):** Math 1130 or ten credit hours in first-year mathematics courses (two first-year math courses)

#### PH1120 Introductory Physics I

Transferable to MUN Physics 1020

Physics I is a non-calculus based introduction to mechanics. This is an introductory course designed to extend students' knowledge and understanding of the basic concepts, principles and applications of mechanics. Topics covered include: kinematics in one and two dimensions, vectors, dynamics, equilibrium, work and energy, linear momentum, circular motion, equilibrium, torque and gravitation.

**Prerequisite(s):** High School Level III Academic Mathematics with a minimum mark of 70%, or a pass in Advanced Mathematics, or College MA1104 (or MUN Mathematics 1090). MA1104 (MUN Mathematics 1090) may be taken concurrently.

#### PH1121 Introductory Physics II

Transferable to MUN Physics 1021

Physics II is a non-calculus based introduction to mechanics. It is an introductory course which may be used as a transfer credit course in physics in a Memorial University academic degree program. Topics covered are: fluids, vibrations and waves, sound, electric charge and electric field, electric potential and potential energy, electric cur-

rent, D.C. circuits and instruments, magnetism and geometrical optics.

**Prerequisite(s):** PH1120 or MUN Physics 1020 or PH1130 or MUN physics 1050 and College MA1130 (or MUN Mathematics 1000). MA1130 (MUN Mathematics 1000) may be taken concurrently.

### PH1130 Physics I

Transferable to MUN Physics 1050

This course is a calculus-based introduction to mechanics. The course emphasizes problem solving. One goal is to extend students' knowledge and understanding of the basic concepts, principles and applications of mechanics, which underlies so much of science. An equally important goal, however, is to develop methods of learning and problem solving which will be of value in whatever endeavors students ultimately choose to pursue. Topics covered include Measurement, Kinematics in one and two Dimensions, Vectors, Laws of Motion, Application of Newton's Laws, Work and Energy, Momentum, and Static Equilibrium.

**Prerequisite(s):** Completion of Physics 2204 and Physics 3204 in high school and enrolment in Mathematics 1130 (MUN Mathematics 1000) concurrently.

### PH1131 General Physics II

Transferable to MUN Physics 1051

General Physics II is a calculus-based physics course. This course is integrated with the use of computers in a workshop environment. Computers will be used to collect and analyze data on simple physical systems. Physics 1130 (General Physics I) introduces mechanics. This course focuses on oscillation, wave motion, physical optics, electricity, and magnetism. This course further develops the processes of logical reasoning and critical thinking as applied to Physics in particular, and Science, in general. General Physics II is a college credit course which may be used as a transfer credit course in physics in a Memorial University degree program. Topics covered include oscillations, wave motion, physical optics, and electromagnetism.

**Prerequisite(s):** PH1130 (MUN Physics 1050) or PH1121 (MUN Physics 1021) or PH1120 (MUN Physics 1020) (with a minimum grade of 65%), and MA1131 (MUN Mathematics 1001). MA1131 (MUN Mathematics 1001) may be taken concurrently.

### PS1150 Introduction to Psychology I

Transferable to MUN Psychology 1000

This course introduces students to psychological theory and research in the areas of neuroscience, human development, learning and memory, sensation and perception of stimuli, and different states of consciousness.

**Prerequisite(s):** None

### PS1151 Introduction to Psychology II

Transferable to MUN Psychology 1001

An introduction to psychological theory and research in the areas of human cognition and emotion, motivation, personality, psychological disorders and treatment, social psychology, health and stress, and sexuality.

**Prerequisite(s):** PS1150 or MUN Psychology 1000.

### SC1150 Principles of Sociology

Transferable to MUN Sociology 1000

Sociology 1150 is an introduction to the concepts, principles and topics of sociology. The theoretical foundations

of modern sociology are examined through the works of such social theorists as Karl Marx, Emile Durkheim and Max Weber, in addition to the contemporary theoretical perspectives of functionalism, feminism, conflict theory and symbolic interactionism. The course also examines a range of sociological topics and concepts including research methods, culture, socialization, social stratification, deviance and crime, race and ethnicity, sex and gender, health and healthcare, work and the economy, and populations.

**Prerequisite(s):** None

### SC1160 Sociology of Families

Transferable to MUN Sociology 2270

Topics covered include: defining the family, sociological perspectives on the family, family diversity, dynamics of intimate relationships, marriage, children and parenting, lone parent families, separation, divorce and remarriage, the family and work, the family and poverty, midlife and beyond, social problems in the family, trends in Canadian family life.

**Prerequisite(s):** None

### SC1430 Labrador Society and Culture

Transferable to MUN Sociology/Anthropology 2220

This course examines Labrador Society and Culture from its pre-contact origins through to the present day. Through coursework, guest speakers and documentaries attention will center on specific cultural groups/traits within Labrador, as well as their interrelationships, which constitute Labrador society.

**Prerequisite(s):** None

### SI1500 Introduction to Physical and Life Science I

Transferable to MUN Science 1150

This course is designed for non-science majors and students who want to pursue a degree in primary and elementary education. This course is divided into two parts, the first part focuses on the earth and sky, and the second part focuses on living systems. The first half of the course deals with Earth in relation to the rest of the solar system, galaxy, and the universe, and the geology of the earth in more detail. This is followed by a section on the atmosphere and weather systems, then by a brief description of soils. Atmosphere and soils will lead into the second half which will concentrate on living systems with emphasis on ecology and elementary cell biology.

**Prerequisite(s):** None

### SI1501 Introduction to Physical and Life Science II

Transferable to MUN Science 1151

This is a continuation of SI1500 course. This course will develop the fundamental concepts of chemistry and physics. It will emphasize the (1) energy of motion, which includes mechanical and thermal energy, laws of thermodynamics, kinetic theory, and energy transfer; (2) energy of the atom, which includes structure of the atom, bonding, chemical energy, radioactivity, relativity, and nuclear energy; and (3) energy of the electron (light and electricity), which includes radiant energy, behavior of waves, light and color, electric current and circuits, effects of electric current, and production of electric current.

**Prerequisite(s):** None

### WM1100 Introduction to Women's Studies

Transferable to MUN Women's Studies 2000

This course is a feminist introduction to the history, principles, and practices of Women's Studies within a Canadian context. The initial readings document the key ideas leading to the rise of feminist consciousness in Western culture in general and the emergence of first wave feminism in Britain and North America specifically. The next group of readings documents the development of second wave feminism in Britain and North America, as well as second and third wave feminism in Canada. The impact of key second wave feminist theories on the establishment of Women's Studies as an academic field of inquiry in Canada will form the context for the interdisciplinary analysis of a variety of Canadian women's works, including (but not limited to) literature (fiction and non-fiction), film, artworks, and personal documents (for example, diaries, photographs, oral records) in archival collections.

**Prerequisite(s):** None