

Recommended course selections for First year Bachelor of Science students

The normal course load for a full-time student in the first-year of any B.Sc. program is 5.0 credits. Recommended course selections for each program appear below. (Undeclared students should refer to the information in the accompanying brochure.) Unless otherwise noted, courses are 0.5 credits.

For information on which courses can be included in the different elective categories, please refer to the Undergraduate Calendar (carleton.ca/cuuc) - Academic Regulations and Requirements for the Bachelor of Science Degree.

Biochemistry - B.Sc. Honours (20.0 credits)

BIOL 1103 Foundations of Biology I
 BIOL 1104 Foundations of Biology II
 CHEM 1001 General Chemistry I
 CHEM 1002 General Chemistry II
 MATH 1007 Elementary Calculus I
 PHYS 1007 University Physics I
 PHYS 1008 University Physics II
 MATH 1107 Linear Algebra I
 1.0 credit in Arts or Social Sciences
 electives (may include NSCI 1000)

Biochemistry - B.Sc. Major (20.0 credits)

BIOL 1003 Introductory Biology I
 BIOL 1004 Introductory Biology II
 CHEM 1001 General Chemistry I
 CHEM 1002 General Chemistry II
 MATH 1007 Elementary Calculus I
 PHYS 1007 University Physics I
 PHYS 1008 University Physics II
 MATH 1107 Linear Algebra I
 1.0 credit in Arts or Social Sciences
 electives (may include NSCI 1000)

Biology - B.Sc. Honours (20.0 credits)

BIOL 1103 Foundations of Biology I
 BIOL 1104 Foundations of Biology II
 CHEM 1001 General Chemistry I*
 CHEM 1002 General Chemistry II*
 MATH 1007 Elementary Calculus I
 PHYS 1007 University Physics I
 PHYS 1008 University Physics II
 Either:

MATH 1107 Linear Algebra I

or:

STAT 2507 Introduction to Statistics

or:

BIOL 1005 Introduction to

Quantitative Methods in Biology

1.0 credit in Arts or Social Sciences
 electives (may include NSCI 1000)

* CHEM 1001 and 1002 are strongly recommended for this program. Students may substitute these with CHEM 1005 and 1006 but will be required to obtain a grade of B- or better in CHEM 1006 in order to take BIOL 2200 and more advanced courses. Students completing CHEM 1005 with a grade of B- or better are encouraged to register for CHEM 1002.

Biology with Concentration in Ecology, Evolution, and Behaviour - B.Sc. Honours (20.0 credits)

BIOL 1103 Foundations of Biology I
 BIOL 1104 Foundations of Biology II
 CHEM 1001 General Chemistry I*
 CHEM 1002 General Chemistry II*
 MATH 1007 Elementary Calculus I
 PHYS 1007 University Physics I
 PHYS 1008 University Physics II

Either:

MATH 1107 Linear Algebra I

or:

STAT 2507 Introduction to Statistics

or:

BIOL 1005 Introduction to
 Quantitative Methods in Biology
 1.0 credit in Arts or Social Sciences
 electives (may include NSCI 1000)

* CHEM 1001 and 1002 are strongly recommended for this program. Students may substitute these with CHEM 1005 and 1006 but will be required to obtain a grade of B- or better in CHEM 1006 in order to take BIOL 2200 and more advanced courses. Students completing CHEM 1005 with a grade of B- or better are encouraged to register for CHEM 1002.

Biology with Concentration in Health Science or in Molecular & Cellular Biology or in Physiology - B.Sc. Honours (20.0 credits)

BIOL 1103 Foundations of Biology I

BIOL 1104 Foundations of Biology II

CHEM 1001 General Chemistry I*

CHEM 1002 General Chemistry II*

PHYS 1007 University Physics I

PHYS 1008 University Physics II

MATH 1007 Elementary Calculus

Either:

MATH 1107 Linear Algebra I

or:

STAT 2507 Introduction to Statistics

or:

BIOL 1005 Introduction to

Quantitative Methods in Biology

1.0 credit in Arts or Social Sciences

electives (may include NSCI 1000)

* CHEM 1001 and 1002 are strongly recommended for this program. Students may substitute these with CHEM 1005 and 1006 but will be required to obtain a grade of B- or better in CHEM 1006 in order to take BIOL 2200 and more advanced courses. Students completing CHEM 1005 with a grade of B- or better are encouraged to register for CHEM 1002.

Biology - B.Sc. Major (20.0 credits)

BIOL 1003 Introductory Biology I

BIOL 1004 Introductory Biology II

CHEM 1005 Elementary Chemistry I*

CHEM 1006 Elementary Chemistry II*

MATH 1007 Elementary Calculus I

PHYS 1007 University Physics I

PHYS 1008 University Physics II

Either:

MATH 1107 Linear Algebra I

or:

STAT 2507 Introduction to Statistics

or:

BIOL 1005 Introduction to

Quantitative Methods in Biology

1.0 credit in Arts or Social Sciences

electives (may include NSCI 1000)

* Students in this program normally take

CHEM 1005 and 1006, but those who intend to take BIOL 2200 and more advanced courses in BIOC and CHEM will be required to obtain a grade of B- or better in CHEM 1006.

Biology - B.Sc. General (15.0 credits)

BIOL 1003 Introductory Biology I

BIOL 1004 Introductory Biology II

CHEM 1005 Elementary Chemistry I*

CHEM 1006 Elementary Chemistry II*

MATH 1007 Elementary Calculus I

PHYS 1007 University Physics I

PHYS 1008 University Physics II

Either:

MATH 1107 Linear Algebra I

or:

STAT 2507 Introduction to Statistics

1.0 credit in Arts or Social Sciences

electives (may include NSCI 1000)

* students in this program normally take CHEM 1005 and CHEM 1006, but those who intend to take more advanced courses in BIOC and CHEM will be required to obtain a grade of B- or better in CHEM 1006.

Bioinformatics - B.Sc. Honours (20.0 credits)

BIOL 1103 Foundations of Biology I

BIOL 1104 Foundations of Biology II

CHEM 1001 General Chemistry I*

CHEM 1002 General Chemistry II*

PHYS 1007 University Physics I

PHYS 1008 University Physics II

MATH 1007 Elementary Calculus I

MATH 1107 Linear Algebra I

COMP 1005 Introduction to Computer Science I

0.5 credit in Arts or Social Sciences elective (may include NSCI 1000)

* CHEM 1001 and 1002 are strongly recommended for this program. Students may substitute these with CHEM 1005 and 1006 but will be required to obtain a grade of B- or better in CHEM 1006 in order to take BIOL 2200 and more advanced courses. Students completing CHEM 1005 with a grade of B- or better are encouraged

to register for CHEM 1002.

Chemistry - B.Sc. Honours (20.0 credits)

CHEM 1001 General Chemistry I

CHEM 1002 General Chemistry II

MATH 1004 Calculus for Engineering or Physics

MATH 1107 Linear Algebra I

Either both:

PHYS 1003 Mechanics and

Thermodynamics

and

PHYS 1004 Electromagnetism and Wave Motion

or both:

PHYS 1007 University Physics I

and

PHYS 1008 University Physics II

1.0 credit in Arts or Social Sciences

electives (may include NSCI 1000)

1.0 credit in Science Faculty Electives

such as, but not limited to:

BIOL 1003 Introductory Biology I

BIOL 1004 Introductory Biology II

COMP 1004 Introduction to

Computers for the Sciences

ERTH 1006 Exploring Planet Earth

ERTH 1009 The Earth System Through Time

Nanoscience - B.Sc. Honours (20.0) credits

CHEM 1001 General Chemistry I

CHEM 1002 General Chemistry II

MATH 1004 Calculus for Engineering Students

MATH 1005 Differential Equations and Infinite Series for Engineering Students

MATH 1104 Linear Algebra for Engineering and Computer Science Students

PHYS 1003 Mechanics and

Thermodynamics

PHYS 1004 Electromagnetism and Wave Motion

1.0 credit in Arts or Social Sciences

elective (may include NSCI 1000)

0.5 credit credit Free Elective

**Chemistry - B.Sc. General
(15.0 credits)**

CHEM 1001 General Chemistry I
CHEM 1002 General Chemistry II
MATH 1004 Calculus for Engineering or
Physics

MATH 1107 Linear Algebra I

Either both:

PHYS 1003 Mechanics and
Thermodynamics
and

PHYS 1004 Electromagnetism and Wave
Motion

or both:

PHYS 1007 University Physics I
and

PHYS 1008 University Physics II
1.0 credit in Arts or Social Sciences
electives (may include NSCI 1000)

1.0 credit in Science Faculty Electives
such as, but not limited to:

BIOL 1003 Introductory Biology I

BIOL 1004 Introductory Biology II

COMP 1004 Introduction to Computers
for the Sciences

ERTH 1006 Exploring Planet Earth

ERTH 1009 The Earth System Through
Time

**Computational Biochemistry -
B.Sc. Honours
(20.0 credits)**

BIOL 1103 Foundations of Biology I

BIOL 1104 Foundations of Biology II

CHEM 1001 General Chemistry I

CHEM 1002 General Chemistry II

PHYS 1007 University Physics I

PHYS 1008 University Physics II

MATH 1007 Elementary Calculus I

MATH 1107 Linear Algebra I

1.0 credit in Arts or Social Sciences
electives (may include NSCI 1000)

**Computational Biology - B.Sc.
Honours
(20.0 credits)**

BIOL 1103 Foundations of Biology I

BIOL 1104 Foundations of Biology II

CHEM 1001 General Chemistry I*

CHEM 1002 General Chemistry II*

PHYS 1007 University Physics I

PHYS 1008 University Physics II

MATH 1007 Elementary Calculus I

MATH 1107 Linear Algebra I

0.5 credit in Arts or Social Sciences
elective (may include NSCI 1000)

* CHEM 1001 and 1002 are strongly
recommended for this program. Students may
substitute these with CHEM 1005 and 1006
but will be required to obtain a grade of B- or
better in CHEM 1006 in order to take BIOL
2200 and more advanced courses. Students
completing CHEM 1005 with a grade of B- or
better are encouraged to register for CHEM
1002.

**Food Science and Nutrition - B.Sc.
Honours
(20.0 credits)**

BIOL 1003 Introductory Biology I

BIOL 1004 (Introductory Biology II

CHEM 1001 General Chemistry I

CHEM 1002 General Chemistry II

MATH 1007 Elementary Calculus I

MATH 1107 Elementary linear
Algebra I

FOOD 1001 Introduction to Food Science

ECON 1000 [1.0] Introduction to
Economics

Either:

PHYS 1007 University Physics I

or:

ERTH 1006 Exploring Planet Earth

or:

ERTH 1009 The Earth System Through
Time

**Environmental Science - B.Sc.
Honours
(20.0 credits)
or
Environmental Science - B.Sc.
Major
(20.0 credits)**

ENSC 1500, fall, Environmental
Science Seminar

BIOL 1003 or BIOL 1103, fall,
Introductory Biology I or
Foundations of Biology I **

ERTH 1006, fall, Exploring Planet
Earth

CHEM 1001, fall, General Chemistry I
MATH 1007, fall, Elementary Calculus
I

BIOL 1004 or BIOL 1104, winter
term, Introductory Biology II or
Foundations of Biology II **

CHEM 1002, winter, General
Chemistry II

GEOG 2013, winter, Weather and
Water

STAT 2507, winter, Introduction to
Statistics

One further optional course in the
winter term. Some recommended
courses are:

ERTH 2403 Introduction to
Oceanography

ENSC 2001 Earth Resources and
Hazards: Environmental Impact

ERTH 2402 Climate Change: An Earth
Sciences Perspective

or an Arts or Social Sciences elective
course (0.5 credit)

**Honours students are required to
complete BIOL 1103 and BIOL 1104;
Major students are required to
complete BIOL 1003 and BIOL 1004

**Geography with Concentration
in Physical Geography - B.Sc.
Honours
(20.0 credits)**

GEOG 1010 Global Environmental
Systems

or

ERTH 1006 Exploring Planet Earth

GEOG 2013 Physical Geography

MATH 1007 Elementary Calculus I

1.0 credit in experimental science
as outlined in the undergraduate
calendar (Academic Regulations and
Requirements for the Bachelor of
Science Degree)

A course in Mathematics, Statistics or
Computer Science (0.5 credits)

1.0 credit in Arts or Social Sciences
electives (may include NSCI 1000)

An additional 1.0 credit in electives
not in Geography

**Geography with Concentration
in Geomatics - B.Sc. Honours
(20.0 credits)**

GEOG 1010 Global Environmental
Systems

or

ERTH 1006 Exploring Planet Earth

GEOG 2013 Physical Geography

1.0 credit in experimental science
as outlined in the undergraduate
calendar (Academic Regulations and
Requirements for the Bachelor of
Science Degree)

0.5 credit in Computer Science

1.0 credit in Arts or Social Sciences
electives (may include NSCI 1000)

An additional 1.0 credit in electives
not in Geography

**Earth Sciences - B.Sc. Honours
(20.0 credits)**

or

**Earth Sciences - B.Sc. Major
(20.0 credits)**

ERTH 1006 Exploring Planet Earth

ERTH 1009 The Earth System Through
Time

CHEM 1005 Elementary Chemistry I

CHEM 1006 Elementary Chemistry II

BIOL 1004 Introductory Biology II

MATH 1007 Elementary Calculus I

MATH 1107 Linear Algebra I Either:

Either both:

PHYS 1003 Introductory Mechanics
and Thermodynamics

and

PHYS 1004 Introductory

Electromagnetism and Wave Motion

or:

PHYS 1007 University Physics I

and

PHYS 1008 University Physics II

0.5 credit in Arts, Social Sciences, or
free elective (may include NSCI 1000)

**Earth Sciences -B.Sc. General
(15.0 credits)**

ERTH 1006 Exploring Planet Earth

ERTH 1009 The Earth System Through
Time

CHEM 1005 Elementary Chemistry I

CHEM 1006 Elementary Chemistry II

MATH 1007 Elementary Calculus I

MATH 1107 Linear Algebra I

Either both:

PHYS 1003 Introductory Mechanics
and Thermodynamics

and

PHYS 1004 Introductory

Electromagnetism and Wave Motion
or

PHYS 1007 University Physics I

and

BIOL 1004 Introductory Biology II

1.0 credit in Arts or Social Sciences
electives (may include NSCI 1000)

**Integrated Science - B.Sc.
Honours
(20.0 credits)**

or

**Integrated Science - B.Sc.
General
(15.0 credits)**

MATH 1007 Elementary Calculus I

or

MATH 1004 Calculus for Engineering
or Physics

MATH 1107 Linear Algebra I

2.0 credits in additional courses

chosen in consultation with the

Integrated Science advisor.

2.0 credits chosen from:

(BIOL 1003 Introductory Biology I

or BIOL 1103 Foundations of Biology I)

(BIOL 1004 Introductory Biology II

or BIOL 1104 Foundations of Biology

II)

(CHEM 1001 General Chemistry I

or CHEM 1005 Elementary Chemistry

I)

(CHEM 1002 General Chemistry II

or CHEM 1006 Elementary Chemistry

II)

PHYS 1007 University Physics I

PHYS 1008 University Physics II

ERTH 1006 Exploring Planet Earth

ERTH 1009 The Earth System Through

Time

GEOG 1010 Global Environmental

Systems

Neuroscience and Mental Health - B.Sc. Honours (20.0 credits)

or
Neuroscience and Mental Health - B.Sc. Major (20.0 credits)
or
Neuroscience and Mental Health - B.Sc. General (15.0 credits)

BIOL 1003 Introductory Biology I

BIOL 1004 Introductory Biology II

PSYC 1001 Introduction to Psychology I

PSYC 1002 Introduction to Psychology II

CHEM 1001 General Chemistry I

CHEM 1002 General Chemistry II*

PHYS 1007 University Physics I

PHYS 1008 University Physics II

NEUR 1201 Introduction to Mental Health and Disease

Either:

MATH 1007 Elementary Calculus I
or

MATH 1107 Linear Algebra I

* *CHEM 1001 and 1002 are strongly recommended for this program. Students may substitute these with CHEM 1005 and 1006 but will be required to obtain a grade of B- or better in CHEM 1006 in order to take BIOL 2200 and more advanced courses. Students completing CHEM 1005 with a grade of B- or better are encouraged to register for CHEM 1002.

Applied Physics - B.Sc. Honours (with an option to do a Minor in Business) (20.0 credits)

or
Physics (Experimental Stream) - B.Sc. Honours (20.0 credits)
or
Physics (Theory Stream) - B.Sc. Honours (20.0 credits)
or
Physics - B.Sc. Major (20.0 credits)

PHYS 1001 Foundations of Physics I

PHYS 1002 Foundations of Physics II

MATH 1004 Calculus for Engineering Students

MATH 1005 Differential Equations and Infinite Series for Engineering Students

MATH 1104 Linear Algebra for Engineering and Computer Science Students

Either:

COMP 1005 Introduction to Computer Science I

or:

ECOR 1606 Problem Solving and Computers

Either:

CHEM 1001 General Chemistry I

CHEM 1002 General Chemistry II

or

CHEM 1005 Elementary Chemistry I

CHEM 1006 Elementary Chemistry II

or:

BIOL 1003 Introductory Biology I

BIOL 1004 Introductory Biology II

or:

ERTH 1006 Exploring Planet Earth

ERTH 1009 The Earth System Through

Time

1.0 credit in Arts or Social Sciences

elective (may include NSCI 1000)

Psychology - B.Sc. Honours (20.0 credits)

PSYC 1001 Introduction to Psychology I

PSYC 1002 Introduction to Psychology II

MATH 1007 Elementary Calculus I

MATH 1107 Linear Algebra I

2.0 credits chosen from:

BIOL 1103 Foundations of Biology I

BIOL 1104 Foundations of Biology II

or:

CHEM 1001 General Chemistry I
and

CHEM 1002 General Chemistry II

or:

CHEM 1005 Elementary Chemistry I
and

CHEM 1006 Elementary Chemistry II

or:

PHYS 1003 Mechanics and Thermodynamics

and

PHYS 1004 Electromagnetism and Wave Motion

or:

PHYS 1007 University Physics I

and

PHYS 1008 University Physics II

or:

GEOG 1010 Global Environmental Systems

or:

ERTH 1006 Exploring Planet Earth

or:

ERTH 1009 The Earth System Through Time

Combined Honours Programs

Biochemistry and Biotechnology - B.Sc. Combined Honours (20.0 credits)

BIOL 1103 Foundations of Biology I
BIOL 1104 Foundations of Biology II
CHEM 1001 General Chemistry I
CHEM 1002 General Chemistry II
PHYS 1007 University Physics I
PHYS 1008 University Physics II
MATH 1007 Elementary Calculus I
MATH 1107 Linear Algebra I
1.0 credit in Arts or Social Sciences electives (may include NSCI 1000)

Biology and Biotechnology - B.Sc. Combined Honours (20.0 credits)

BIOL 1103 Foundations of Biology I
BIOL 1104 Foundations of Biology II
CHEM 1001 General Chemistry I*
CHEM 1002 General Chemistry II*
PHYS 1007 University Physics I
PHYS 1008 University Physics II
MATH 1007 Elementary Calculus I
Either:
MATH 1107 Linear Algebra I
or:

STAT 2507 Introduction to Statistics
1.0 credit in Arts or Social Sciences electives (may include NSCI 1000)

* CHEM 1001 and 1002 are strongly recommended for this program. Students may substitute these with CHEM 1005 and 1006 but will be required to obtain a grade of B- or better in CHEM 1006 in order to take BIOL 2200 and more advanced courses. Students completing CHEM 1005 with a grade of B- or better are encouraged to register for CHEM 1002.

Biology and Earth Sciences - B.Sc. Combined Honours (20.0 credits)

BIOL 1103 Foundations of Biology I
BIOL 1104 Foundations of Biology II
ERTH 1006 Exploring Planet Earth
ERTH 1009 The Earth System Through Time
MATH 1007 Elementary Calculus I
MATH 1107 Linear Algebra I
Either both**:
CHEM 1005 Elementary Chemistry I* and
CHEM 1006 Elementary Chemistry II* or both:
PHYS 1007 University Physics I and
PHYS 1008 University Physics II
1.0 credit in Arts or Social Sciences electives (may include NSCI 1000)

* students in this program normally take CHEM 1005 and CHEM 1006, but those who intend to take more advanced courses in BIOC and CHEM will be required to obtain a grade of B- or better in CHEM 1006.

**the omitted subject (Chemistry or Physics) must have been taken at the 4U/M level

Biology and Physical Geography - B.Sc. Combined Honours (20.0 credits)

BIOL 1103 Foundations of Biology I
BIOL 1104 Foundations of Biology II
CHEM 1005 Elementary Chemistry I*
CHEM 1006 Elementary Chemistry II *
MATH 1007 Elementary Calculus I
Either:
ERTH 1006 Exploring Planet Earth
or:
GEOG 1010 Global Environmental Systems
Either:
MATH 1107 Linear Algebra I
or:

STAT 2507 Introduction to Statistics
1.0 credit in Arts or Social Sciences electives (may include NSCI 1000)

* students in this program normally take

CHEM 1005 and CHEM 1006, but those who intend to take more advanced courses in BIOC and CHEM will be required to obtain a grade of B- or better in CHEM 1006.

Biology and Physics - B.Sc. Combined Honours (20.0 credits)

BIOL 1103 Foundations of Biology I
BIOL 1104 Foundations of Biology II
CHEM 1001 General Chemistry I*
CHEM 1002 General Chemistry II*
PHYS 1001 Foundations of Physics I
PHYS 1002 Foundations of Physics II
MATH 1004 Calculus for Engineering or Physics
MATH 1005 Differential Equations and Infinite Series for Engineering or Physics
MATH 1104 Linear Algebra for Engineering or Sciences
COMP 1005 Introduction to Object-Oriented Programming (usually taken in 2nd year)
NSCI 1000 Seminar in Science and 0.5 credit in approved Arts or Social Sciences

* * CHEM 1001 and 1002 are strongly recommended for this program. Students may substitute these with CHEM 1005 and 1006 but will be required to obtain a grade of B- or better in CHEM 1006 in order to take BIOL 2200 and more advanced courses. Students completing CHEM 1005 with a grade of B- or better are encouraged to register for CHEM 1002.

**Chemistry and Earth Sciences -
B.Sc. Combined Honours
(20.0 credits)**

CHEM 1001 General Chemistry I
CHEM 1002 General Chemistry II
ERTH 1006 Exploring Planet Earth
ERTH 1009 The Earth System Through
Time
MATH 1004 Calculus for Engineering
or Physics
MATH 1107 Linear Algebra I
Either both:
PHYS 1003 Introductory Mechanics
and Thermodynamics
and
PHYS 1004 Introductory
Electromagnetism and Wave Motion
or both:
PHYS 1007 University Physics I
and
PHYS 1008 University Physics II
1.0 credit in Arts or Social Sciences
electives (may include NSCI 1000)

**Chemistry and Physics - B.Sc.
Combined Honours
(20.0 credits)**

CHEM 1001 General Chemistry I
CHEM 1002 General Chemistry II
PHYS 1001 Foundations of Physics I
PHYS 1002 Foundations of Physics II
MATH 1004 Calculus for Engineering
or Physics
MATH 1005 Differential Equations
and Infinite Series for Engineering
Students
MATH 1104 Linear Algebra for
Engineering and Computer Science
Students
Either:
COMP 1005 Introduction to Computer
Science I
or:
ECOR 1606 Problem Solving and
Computers
1.0 credit in Arts or Social Sciences
electives (may include NSCI 1000)

**Earth Sciences and Physical
Geography: Concentration
in Terrain Science - B.Sc.
Combined Honours
(20.0 credits)**

ERTH 1006 Exploring Planet Earth
GEOG 2014 The Earth's Surface
CHEM 1001 General Chemistry I
CHEM 1002 General Chemistry II
MATH 1007 Elementary Calculus I
MATH 1107 Linear Algebra I
BIOL 1004 Introductory Biology II
Either both:
PHYS 1003 Mechanics and
Thermodynamics
and
PHYS 1004 Electromagnetism and
Wave Motion
or both:
PHYS 1007 University Physics I
and
PHYS 1008 University Physics II
0.5 credit in Arts or Social Sciences
electives (may include NSCI 1000)

**Earth Sciences and Physical
Geography - B.Sc. Combined
Honours
(20.0 credits)**

ERTH 1006 Exploring Planet Earth
GEOG 2013 Weather and Water
GEOG 2014 The Earth's Surface
CHEM 1001 General Chemistry I
CHEM 1002 General Chemistry II
MATH 1007 Elementary Calculus I
MATH 1107 Linear Algebra I
Either both:
PHYS 1003 Mechanics and
Thermodynamics
and
PHYS 1004 Electromagnetism and Wave
Motion
or both:
PHYS 1007 University Physics I
and
PHYS 1008 University Physics II
0.5 credit in Arts or Social Sciences
electives (may include NSCI 1000)

**Mathematics and Physics - B.Sc.
Double Honours
(21.5 credits)**

MATH 1002 [1.0] Calculus

MATH 1102 [1.0] Algebra

PHYS 1001 Foundations of Physics I

PHYS 1002 Foundations of Physics II

COMP 1005 Introduction to Computer
Science I

Either:

CHEM 1001 General Chemistry I

CHEM 1002 General Chemistry II

or:

BIOL 1003 Introductory Biology I

BIOL 1004 Introductory Biology II

or:

ERTH 1006 Exploring Planet Earth

ERTH 1009 The Earth System Through
Time

1.0 credit in Arts or Social Sciences
electives (may include NSCI 1000)

**Neuroscience - B.Sc. Combined
Honours
(20.0 credits)**

BIOL 1103 Foundations of Biology I

BIOL 1104 Foundations of Biology II

PSYC 1001 Introduction to Psychology
I

PSYC 1002 Introduction to
Psychology II

CHEM 1001 General Chemistry I*

CHEM 1002 General Chemistry II*

PHYS 1007 University Physics I

PHYS 1008 University Physics II

MATH 1007 Elementary Calculus I

MATH 1107 Linear Algebra I

* * CHEM 1001 and 1002 are strongly

recommended for this program. Students may
substitute these with CHEM 1005 and 1006
but will be required to obtain a grade of B- or
better in CHEM 1006 in order to take BIOL
2200 and more advanced courses. Students
completing CHEM 1005 with a grade of B- or
better are encouraged to register for CHEM
1002.