

From: **College of New Caledonia (CNC)**
Associate of Science Degree, Biology Concentration

To: **University of Northern BC (UNBC)**
Bachelor of Science (BSc Degree, Major in Biology)

The following list of course equivalents will appear on the transfer credit summary for students who have successfully completed **CNC's Associate of Science Degree** and pursue a **Bachelor of Science Degree, major in Biology at UNBC**.

Information in this handout is unofficial and should be used as a guide only. For questions regarding admission to UNBC or course selection please contact Student Recruitment & Advising at 250-960-6306 or advising@unbc.ca.

NOTE: As per UNBC Undergraduate Calendar Regulation number 14, "Students must complete a minimum of 30 credit hours of upper division UNBC course work to receive a UNBC degree."

Associate of Science Degree Graduation Requirements – Specific

1. 6 credits in first year English; and
2. 6 credits in mathematics which shall include at least 3 credits in calculus; and Math
3. 36 credits in science, which shall include at least 3 credits in laboratory science; and
4. 6 credits in arts, other than English (excluding mathematics and laboratory science courses); and
5. 6 credits in arts, science or other areas.

Note 1: Students must have completed at least three semester credits in the semester the degree is awarded.

Note 2: Unassigned credits from other institutions for inclusion in the course work leading to the Associate of Sciences degree will be limited to 15 credits. The final decision for determining course area, level, and number of credit hours will be made by the Dean or senior academic administrator in the UT Science program area.

Note 3: Students are advised to consult with a CNC advisor in order to determine specific course requirements for entry to a particular university degree program.

Note 4: A laboratory science course is any course in the sciences list worth 3 credits or more and with a lab of at least 2 hours, but excluding any course in applied science (engineering) or computing science.

Biology Concentration	CNC Course Name	UNBC Equivalence ¹
Biology Requirements:		
BIO 107	Cellular and Organismal	} BIOL 103-3 & BIOL 104-3 & BIOL 123-1 & BIOL 124-1
BIO 120	Genetics, Evolution, and Ecology	
BIO 201	Cell Structure	BIOL 311-3
BIO 202	Introductory Biochemistry	CHEM 204-3 & CHEM 2XX-1
BIO 215	Microbiology	BIOL 203-3
BIO 220	Introductory Genetics	BIOL 210-3
One of:		
CHEM 111	Fundamentals of Chemistry I	CHEM 100-3 & CHEM 120-1 ²
or CHEM 113	Introduction to Chemistry I	CHEM 100-3 & CHEM 120-1 ²
One of:		
CHEM 112	Fundamentals of Chemistry II	CHEM 101-3 & CHEM 121-1 ²
or CHEM 114	Introduction to Chemistry II	CHEM 101-3 & CHEM 121-1 ²
CHEM 203	Organic Chemistry I	CHEM 201-3 & CHEM 250-1
CHEM 204	Organic Chemistry II	CHEM 203-3 & CHEM 251-1
MATH 101 ⁴	Calculus I	MATH 100-3 ^{3&4}
MATH 102 ⁴	Calculus II	MATH 101-3 ⁴
One of:		
PHYS 101	Introductory Physics I	PHYS 110-4
or PHYS 105	General Physics I	PHYS 100-4

Biology Requirements Cont'd:

One of:

PHYS 102	Introductory Physics II	PHYS 111-4
or PHYS 106	General Physics II	PHYS 101-4

English Requirement

ENGL 103	Composition and Style	ENGL 170-3
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3 additional credits 100-level UT (University Transfer) English**

Humanities & Social Science Requirement

6 credits in Humanities or Social Sciences, in addition to the 6 credits of required English courses**

Electives

6 additional UT credits in any area**

Note: Students should speak with an Academic advisor to ensure their electives are eligible to count towards an Associate of Arts Degree.

¹ Course equivalencies were determined through the articulation process and are listed on the BC Transfer Guide, www.bctransferguide.ca

Student will need to choose coursework appropriately so as not to receive duplicate Transfer Credit.

² Students will need to complete CHEM 111 & CHEM 112 OR CHEM 113 & CHEM 114 to earn credit at UNBC.

³ Students will be awarded credit for only one of UNBC MATH 100-3 or UNBC MATH 105-3 or UNBC MATH 152-3.

⁴ Must achieved a C- (60% at UNBC) or better for all Math transfer credit to use as a prerequisite for UNBC coursework

Note: Above based on CNC 2018/19 Academic Calendar.

Students can take any course that transfers to UNBC in order to receive credits in this area. Check the BC Transfer Guide for these courses – www.bctransferguide.ca. Please see the **Recommended Courses to take section below for suggested courses to take to fulfill these credits.

Recommended Courses to take:

CNC Course	CNC Course Name	UNBC Equivalence ¹
MATH 104 ²	Introduction to Statistics	STAT 240-3 ²
PSYC 209	Intro to Biological Psychology	PSYC 317

¹ Students need to verify they are completing approved University Transfer Credit coursework as per the BC Transfer Guide. Courses in the Creative and Performing Arts as well as Career program and other courses considered for the Associate degree may not be eligible for transfer credit to UNBC.

² Must achieved a C- (60% at UNBC) or better for all Math transfer credit to use as a prerequisite for UNBC coursework

Sample of **UNBC Calendar** requirements for the Biology major and how CNC Associate of Science Degree, Biology Concentration coursework *may be* used towards completion of the degree at UNBC¹.

UNBC Calendar Information, Course Number & Course Name

CNC Equivalence¹

The major in Biology requires students to take at least 65 credit hours of biology-oriented courses, of which 42 credit hours must be at the 300- or 400- level. Note: NRES 430-6 can count as up to 6 credit hours toward this requirement (with permission of the Ecosystem Science and Management Program Chair).

The minimum requirement for the completion of a Bachelor of Science with a major in Biology is 126 credit hours.

In order to increase the breadth and utility of their degree, and to demonstrate an interest in a particular biological sub-discipline, students have the option of choosing to complete a maximum of one Area of Specialization during their degree, chosen from the following list:

1. Field Biology and Natural History
2. Applied Ecology
3. Ecology and Evolution
4. Zoology
5. Botany and Mycology
6. Cell Biology and Genetics

Program Requirements

Lower-Division Requirement - 100 Level

BIOL 103-3	Introductory Biology I	}	✓ Completed at CNC, BIO 107 and BIO 120
BIOL 104-3	Introductory Biology II		
BIOL 123-1	Introductory Biology I Lab		
BIOL 124-1	Introductory Biology II Lab		
CHEM 100-3	General Chemistry I	}	✓ Completed at CNC, CHEM 111 & CHEM 112 or CHEM 113 & CHEM 114
CHEM 101-3	General Chemistry II		
CHEM 120-1	General Chemistry Lab I		
CHEM 121-1	General Chemistry Lab II		
NRES 100-3	Communications in Natural Resources & Environmental Studies	}	✓ Completed at CNC, ENGL 103
or ENGL 170-3	Writing and Communication Skills		
MATH 152-3 ⁶	Calculus for Non-Majors	}	✓ Completed at CNC, MATH 101 ²
or MATH 100-3 ⁶	Calculus I		
PHYS 100-4	Introduction to Physics I	}	✓ Completed at CNC, PHYS 105 or PHYS 101
or PHYS 110-4	Introductory Physics I: Mechanics		
PHYS 101-4	Introduction to Physics II	}	✓ Completed at CNC, PHYS 106 or PHYS 102
or PHYS 111-4	Introductory Physics II: Waves & Electricity		
<i>Recommended:</i>	MATH 101-3 ⁶ Calculus II		✓ Completed at CNC, MATH 102 ²

UNBC BSc, Major in Biology Calendar requirements continued:

Note: Students who are interested in pursuing professional programs should contact the program advisor regarding the correct course sequences required for individual programs.

200 Level

BIOL 201-3	Ecology	<input type="checkbox"/> To be completed at UNBC
BIOL 202-3	Invertebrate Zoology	- Can be completed at CNC, BIO 211
BIOL 203-3	Microbiology	✓ Completed at CNC, BIO 215
BIOL 204-3	Plant Biology	<input type="checkbox"/> To be completed at UNBC
BIOL 210-3	Genetics	✓ Completed at CNC, BIO 220
CHEM 201-3	Organic Chemistry I	✓ Completed at CNC, CHEM 203
CHEM 203-3	Organic Chemistry II	✓ Completed at CNC, CHEM 204
CHEM 204-3	Introductory Biochemistry	✓ Completed at CNC, BIO 202
STAT 240-3 ⁶	Basic Statistics	- Can be completed at CNC, MATH 104 ²

Students must also take 6 additional credit hours of courses at the 200 level or above. Students are encouraged to explore a diversity of courses during their undergraduate biology education. While biology content is not specifically required, biology students may find relevant courses among the following prefixes: ANTH, BCMB, CHEM, ENPL, ENSC, ENVS, FNST, FSTY, GEOG, HHSC, INTS, NOLS, NREM, NORS, ORTM, PHIL, PHYS, POLS, PSYC, and STAT.

* Please discuss how to complete this requirement with your Student Advisor. Depending on course selection, students may be able to complete some or all of this requirement at CNC.

Upper-Division Requirement - 300 Level

BIOL 311-3	Cell and Molecular Biology	✓ Completed at CNC, BIO 201
BIOL 323-3	Evolutionary Biology	<input type="checkbox"/> To be completed at UNBC
BIOL 325-3	Ecological Analysis	

One of the following:

BIOL 304-3	Plants, Society & the Environment
BIOL 321-3	Animal Physiology

Two of the following:

BIOL 301-3	Systematic Botany
BIOL 307-3	Ichthyology & Herpetology
BIOL 308-3	Ornithology & Mammalogy
BIOL 318-3	Fungi & Lichens

400 Level

BIOL 410-3	Population & Community Ecology
BIOL 411-3	Conservation Biology

One of the following:

BIOL 404-3	Plant Ecology
BIOL 406-3	Fish Ecology
BIOL 412-3	Wildlife Ecology

UNBC Biology Major Calendar requirements continued:

Subject Requirements

Fifteen additional credit hours chosen from the following of
Which at least 6 credit hours must be at the 400 level:

Any 300 or 400 level Biology courses

ENSC 406-3 Environmental Modelling

FSTY 307-3 Disturbance Ecology & Forest Health

Additional Requirements

At least one course with Social Sciences content must be taken
from the following list:

BIOL 304-3, BIOL 350-3, BIOL 420-3 or BIOL 421-3
(these may also count as subject requirements)

or any course with one of the following prefixes:

ANTH, COMM, ECON, EDUC, ENPL, ENVS, FNST, INTS,
NORS, ORTM, POLS, PSYC.

Elective Requirement

Elective credit hours must be taken as necessary to ensure
completion of a minimum of 126 credit hours.

* Please discuss how to complete this requirement
with your Student Advisor. Depending on course
selection, students may be able to complete some
or all of this requirement at CNC.

¹Based on the 2019/20 UNBC Academic Calendar year.

²Must achieved a C- (60% at UNBC) or better for all Math transfer credit to use as a prerequisite for UNBC coursework.