

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  
Environmental Science)

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 Environmental Science 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](mailto: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 <sup>1</sup>
<b>Biology Requirements:</b>		
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 <sup>2</sup>
or CHEM 113	Introduction to Chemistry I	CHEM 100-3 & CHEM 120-1 <sup>2</sup>
One of:		
CHEM 112	Fundamentals of Chemistry II	CHEM 101-3 & CHEM 121-1 <sup>2</sup>
or CHEM 114	Introduction to Chemistry II	CHEM 101-3 & CHEM 121-1 <sup>2</sup>
CHEM 203	Organic Chemistry I	CHEM 201-3 & CHEM 250-1
CHEM 204	Organic Chemistry II	CHEM 203-3 & CHEM 251-1
MATH 101 <sup>4</sup>	Calculus I	MATH 100-3 <sup>3&amp;4</sup>
MATH 102 <sup>4</sup>	Calculus II	MATH 101-3 <sup>4</sup>
One of:		
PHYS 101	Introductory Physics I	PHYS 110-4
or PHYS 105	General Physics I	PHYS 100-4

## Biology Requirements Cont'd:

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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.

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<sup>1</sup> Course equivalencies were determined through the articulation process and are listed on the BC Transfer Guide, [www.bctransferguide.ca](http://www.bctransferguide.ca)

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

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

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

<sup>4</sup> 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](http://www.bctransferguide.ca). Please see **Recommended Courses to take** section below for suggested courses to take to fulfill these credits.

## Recommended Courses to take:

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CNC Course	CNC Course Name	UNBC Equivalence <sup>1</sup>
GEOG 201	Weather and Climate	ENSC 201-3
GEOG 202	Surface of the Earth	GEOG 210-3
MATH 104 <sup>2</sup>	Introduction to Statistics	STAT 240-3 <sup>2</sup>

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<sup>1</sup> 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.

<sup>2</sup> 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 Environmental Science major and how CNC Associate of Science Degree Biology Concentration coursework *may be* used towards completion of the degree at UNBC<sup>1</sup>:

**UNBC Calendar Information, Course Number & Course Name**

**CNC Equivalence<sup>1</sup>**

Undergraduate students are required to take a total of 93 credit hours of program core requirements in addition to an Area of Specialization as indicated below. The Area of Specialization allow students to develop expertise within an area of their interest. The major requires elective credit hours as necessary to ensure completion of a minimum of 126 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Undergraduate Academic Regulation 15). Students needing to improve their communication skills should take ENGL 170-3 Writing and Communication Skills or NRES 100-3 Communication in NRES as an elective. Note that ENGL 170-3 also fulfills the Academic Breadth requirement for Arts and Humanities. Other areas of Academic Breadth are covered in the major.

**Program Core Requirements  
Lower-Division Requirement**

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	
ENSC 111-1	Introduction to Environmental Science	☐ To be completed at UNBC
MATH 100-3 <sup>2</sup>	Calculus I	✓ Completed at CNC, MATH 101 <sup>2</sup>
MATH 101-3 <sup>2</sup>	Calculus II	✓ Completed at CNC, MATH 102 <sup>2</sup>
PHYS 100-4 and PHYS 101-4 or PHYS 110-4 and PHYS 111-4	Introduction to Physics I Introduction to Physics II  Introductory Physics I: Mechanics Introductory Physics II: Waves and Electricity	} ✓ Completed at CNC, PHYS 105 and PHYS 106 or PHYS 101 and PHYS 102
Note: PHYS 110-4 and PHYS 111-4 are strongly recommended		
BIOL 201-3	Ecology	☐ To be completed at UNBC
BIOL 203-3	Microbiology	✓ Completed at CNC, BIO 215
ENSC 201-3	Weather and Climate	- Can be completed at CNC, GEOG 201
ENSC 202-3	Introduction to Aquatic Systems	☐ To be completed at UNBC
ENSC 250-2	Introduction to Environmental Data Analysis	☐ To be completed at UNBC

UNBC BSc, Major in Environmental Science Calendar requirements continued:


<p>FSTY 205-3 Introduction to Soil Science          GEOG 205-3 Cartography and Geomatics          GEOG 210-3 Geomorphology          STAT 240-3<sup>2</sup> Basic Statistics          or STAT 371-3<sup>2</sup> Probability and Statistics for Scientists and Engineers          3 credit hours of any 200-level CHEM</p>	<p><input type="checkbox"/> To be completed at UNBC  <input type="checkbox"/> To be completed at UNBC          - Can be completed at CNC, GEOG 202          - Can be completed at CNC, MATH 104<sup>2</sup></p>
<p>Students who are interested in pursuing professional designations should contact the program advisor regarding the correct course sequences required for individual program as well as the appropriate choice of electives.</p>	
<p><b>Upper-Division Requirements</b></p>	
<p>ENPL 305-3 Environmental Impact Assessment          ENPL 401-3 Environmental Law          ENSC 308-3 Northern Contaminated Environments          ENSC 406-3 Environmental Modelling          ENSC 418-3 Environmental Measurement and Analysis          ENSC 440-3 Internship*          or ENSC 499-3 Independent Study          ENSC 450-3 Environmental and Geophysical Data Analysis          ENV5 414-3 Environmental and Professional Ethics</p>	
<p>One of the following:</p>	
<p>ENV5 225-3 Global Environmental Change: Science and Policy          FNST 304-3 Indigenous Environmental Philosophy          GEOG 307-3 Changing Arctic: Human and Environmental Systems          GEOG 401-3 Tenure, Conflict, and Resource Geography          INTS 307-3 Global Resources          or 3 credit hours of any upper-division ENV5 courses.</p>	<p><input type="checkbox"/> To be completed at UNBC</p>
<p>Two of the following:</p>	
<p>ENGR 451-3 Groundwater Hydrology          ENSC 404-3 Waste Management          ENSC 412-3 Air Pollution          ENSC 452-3 Reclamation and Remediation of Disturbed Environments</p>	
<p>*Students with extensive experience related to the environment may be waived from this degree requirement with approval from the Program.</p>	

UNBC Environmental Science major Calendar requirements continued:

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**Area of Specialization Requirement for BSc (Major) in  
Environmental Science**

Environmental Science majors are required to complete an Area of Specialization satisfying the requirements of any available minor at UNBC as part of their degree. A minor allows students to specialize in a subject area relevant to the advancement, utilization and dissemination of environmental knowledge. Some minors may result in students taking more than the required 126 credit hours in order to obtain the Environmental Science Major. Many minors allow 100-level prerequisite courses and an additional 6 credit hours of other courses to be used for meeting the requirements of both the major and minor. Consult the current Undergraduate Calendar for the requirements of minors available at UNBC.



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.

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

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