From: **Coast Mountain College (CMTN)** Associate of Science Degree, Environmental Geoscience Specialization

To: University of Northern BC (UNBC)

Bachelor of Science (Integrated)

The following list of course equivalents will appear on the transfer credit summary for students who have successfully completed **CMTN's Associate of Science Degree** and complete a **Bachelor of Science (Integrated) Degree at UNBC**. ★ Star icon indicates the best choice for transferability to UNBC when students are given the choice within Associate Degree.

CMTN Requirement Applicable to ASc	CMTN Course Name	UNBC Equivalence ¹
YEAR 1		
BIOL 101	Introductory Biology I - Cells,	
	Diversity and Physiology	BIOL 103-3 & 104-3 & 123-1 & 124-1
BIOL 102	Introductory Biology II - Genetics,	
	Evolution, and Ecology	
CPSC 111	An Introduction to Computers	CPSC 150-3
or MATH 115 ²	Pre-Calculus	MATH 115-3 ²
ENGL 101	University Writing	ENGL 170-3
ENGL 102	Introduction to Literature	ENGL 100-3
or ENGL 151	Technical Writing	NRES 100-3
GEOG 110	People and The Environment	GEOG 100-3
GEOG 150	Physical Geography I: Biogeography, Meteorology, and Climate	ENSC 201-3
GEOG 160	Physical Geography II: Geology, Geomorphology and Soils	GEOG 210-3 or GEOG 2XX-3
or GEOL 157	Introduction to Northwest Geology	GEOG 210-3 or GEOG 2XX-3
GEOG 203	Geomorphology	GEOG 2XX-3
or OCGY 208	Intro to Physical, Chemical, and	SCIE 2XX-3
	Geological Oceanography	
GEOG 207	Hydrology Soils	GEOG 310-3
or OCGY 209	Introduction to Biological	SCIE 2XX-3
	Oceanography	
YEAR 2		
BIOL 201	Invertebrate Biology	BIOL 202-3
or BIOL 202	Vertebrate Biology	BIOL 2XX-3
★ or BIOL 208	Plant Biology	BIOL 204-3
or BIOL 235	Ichthyology	BIOL 2XX-3
BIOL 211	Principles of Ecology	BIOL 201-3
or GEOG 202	Geography of Ecosystems	GEOG 2XX-3
GEOG 201	Environmental Climatology	GEOG 2XX-3
★ or GEOG 210	Environments and Society	ENPL 205-3
GEOG 202	Geography of Ecosystems	GEOG 2XX-3
★ or GEOG 204	Spatial Analysis and Geographic	GEOG 204-3
	Information Systems (GIS)	
*MATH 101 ²	Calculus I: Differential Calculus	MATH 100-3 ²
MATH 131 ²	Introduction to Statistics	STAT 240-3 ²
Two of the following:		
	Introductory Chemistry I	CHEM 100-3 and CHEM 120-1
CHEM 101	introductory chemistry i	
CHEM 101 CHEM 111	Fundamental Chemistry I	No UNBC equivalent

CHEM 102	Introductory Chemistry II	CHEM 101-3 and CHEM 121-1
CHEM 122	Advanced Chemistry	CHEM 101-3 and CHEM 121-1
MATH 102 ²	Calculus II: Integral Calculus	MATH 101-3 ²
PHYS 101	Introductory Physics I	PHYS 100-4
PHYS 121	Physics I	PHYS 110-4
PHYS 102	Introductory Physics II	PHYS 101-4
PHYS 122	Advanced Physics	PHYS 111-4
or:		
Two Arts Electives	Any 3 credit Arts Courses (Field Schools Recommended)	

*Please note: Math 115 (or equivalent) is a required pre-requisite for Math 101.

Other required		UNBC Equivalence ³
CMTN credit	Specifics	Used towards this BSc Requirement
6 credits	First year English	
6 credits	Mathematics (which shall include at	
	least 3 credits in calculus)	* Please discuss how to complete this
36 credits	Science (which shall include at least	requirement with your Student Advisor.
	3 credits in a laboratory science)	Depending oncourse selection, students may
6 credits	Arts other than English (excluding	be able to complete some or all of this
	Mathematics & Laboratory-based	requirement at CMTN. ⁴
	Science courses)	
6 credits	Arts, science, or other areas	

¹ Course equivalencies were determined through the articulation process and are listed on the BC Transfer Guide, <u>www.bctransferguide.ca</u> Student will need to choose coursework appropriately so as not to receive duplicate Transfer Credit.

² Transfer credit will be awarded for MATH 115 only if the equivalent of MATH 115 is taken prior to the equivalent of UNBC MATH 100, 105, 150 or 152. Must have a C- or better to use as a prerequisite

³ Students need to choose coursework transferable to UNBC in order to receive credit in these areas.

⁴ 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.

Additional CMTN Recommended Courses

CMTN		UNBC Equivalence ³	
Courses	Specifics	Used towards this BSc Requirement	
BIOL 203 and BIOL 204	Non-Vasc PI & Fungi/Vasc Plant	BIOL 301-3 and BIOL 2XX-3	
CPSC 113 ⁶	Comp Programming/Lego Robot	CPSC 100-4 ⁶	

Note: Fulfills UNBC Requirements

UNBC UNIVERSITY OF NORTHERN BRITISH COLUMBIA

Sample of **UNBC Calendar** requirements for the BSc (Integrated) Degree and how CMTN Associate of Science Degree in Environmental Geoscience Specialization coursework *may be* used towards completion of the degree at UNBC⁵:

UNBC Calendar Information			CMTN Equivalence
Students enrolled in the Bachelor of Science (Integrated) must successfully complete a total of 120 credit hours including a minimum of 45 credit hours from upper division (300- or 400-level) courses, and not less than 15 credit hours, at any level, of Humanities and Social Science courses.			
Lower Division Requir BIOL 103-3 BIOL 104-3 BIOL 123-1 BIOL 124-1 CHEM 100-3 CHEM 120-1 CHEM 101-3 CHEM 121-1 MATH 100-3 ⁶	ement Introductory Biology I Introductory Biology II Introductory Biology I Laboratory Introductory Biology II Laboratory General Chemistry I General Chemistry Lab I General Chemistry Lab I General Chemistry Lab II Calculus		✓ Completed at CMTN, BIOL 101 and BIOL 102 ✓ Completed at CMTN, CHEM 101 or CHEM 121 ✓ Completed at CMTN, CHEM 102 or CHEM 122
or MATH 105-3 ⁶ MATH 101-3 ⁶ or MATH 152-3 ⁶	Enriched Calculus Calculus II Calculus for Non-majors	}	 ✓ Completed at CMTN MATH 101⁶ ✓ One course completed at CMTN, MATH 102⁶
STAT 240-3 ⁶	Basic Statistics		✓ Completed at CMTN, MATH 131^6
PHYS 100-4 or PHYS 110-4	Introduction to Physics I Introductory Physics I: Mechanics	}	✓ Completed at CMTN, PHYS 101 or PHYS 121
PHYS 101-4 or PHYS 111-4	Introduction to Physics II Introductory Physics II: Waves & Electricity	}	✓ Completed at CMTN, PHYS 102 or PHYS 122
Upper Division Requirement Students must complete 18 upper division credit hours within each of two Areas of Specialization for a minimum of 36 credit hours. Note that if a course falls into more than one Area of Specialization, it may be counted in only one Area of Specialization.			* 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 CMTN.
 Eligible courses for & Molecular Biology A BCMB 306-3 BCMB 307-3 BCMB 308-3 BCMB 330-3 BCMB 340-3 	the Biology, Ecology, and Biochemistry area of Specialization Intermediary Metabolism Proteins Biochemistry Lab II Nucleic Acids Physical Biochemistry		To be completed at UNBC

UNIVERSITY OF NORTHERN BRITISH COLUMBIA UNBC BSc (Integrated) Degree Calendar requirements continued: BCMB 405-3 Topics in Biochemistry and Molecular Biology To be completed at UNBC BCMB 409-3 Enzymology All Upper Division BIOL courses. 2) Eligible courses for the Chemistry, Biochemistry & **Molecular Biology Area of Specialization** BIOL 423-3 Molecular Evolution and Ecology To be completed at UNBC BIOL 424-3 Molecular Cell Physiology Applied Genetics and Biotechnology BIOL 425-3 All Upper Division BCMB and CHEM courses. 3) Eligible courses for the Computer Science Area of Specialization Students considering this Area of Specialization should include in the first year: CPSC 100-4 * Can be completed at CMTN, CPSC 113⁶ **Computer Programming I** CPSC 141-3 **Discrete Computational Mathematics** CPSC 101-4 **Computer Programming II** To be completed at UNBC All Upper Division CPSC courses except CPSC 311-3 Computer Applications Programming. 4) Eligible courses for the Environmental and Earth Sciences Area of Specialization ENPL 305-3 **Environmental Impact Assessment** ENPL 402-3 **Terrain Assessment** FSTY 315-3 Forest Soil Management □ To be completed at UNBC FSTY 425-3 Soil Formation and Classification **Biogeochemical Processes in Soil** FSTY 455-3 Systems GEOG 310-3 Hydrology ✓ Completed at CMTN, GEOG 207 **Concepts in Geomorphology** GEOG 311-3 Fluvial Geomorphology GEOG 405-3 GEOG 411-3 Quaternary and Surficial Geology GEOG 412-3 Geomorphology of Cold Regions GEOG 414-3 Weathering Processes □ To be completed at UNBC NREM 410-3 Watershed Management PHYS 307-3 Selected Topics in Environmental Physics All Upper-Division ENSC courses except ENSC 417-6 Designing Solutions in Environmental Engineering. 5) Eligible courses for the Geography (Science) and GIS Area of **Specialization** Geographic Information Systems GEOG 300-3 □ To be completed at UNBC GEOG 310-3 Hydrology ✓ Completed at CMTN, GEOG 207 **Concepts in Geomorphology** GEOG 311-3 To be completed at UNBC GEOG 405-3 Fluvial Geomorphology

UNIVERSITY OF NORTHERN BRITISH COLUMBIA

UNBC BSc (Integrated)	Degree Calendar requirements continued	1:	
GEOG 411-3	Quaternary and Surficial Geology		
GEOG 412-3	Geomorphology of Cold Regions		
GEOG 413-3	Advanced GIS		
GEOG 414-3	Weathering Processes		To be completed at UNBC
GEOG 432-3	Remote Sensing		
GEOG 457-3	Advanced Remote Sensing		
6) Eligible courses for	the Mathematics & Statistics Area of		
Specialization			
All upper-division MAT Biostatistics.	H courses except MATH 342-3		To be completed at UNBC
	the Natural Resources and Forestry Area		
of Specialization			* Please discuss how to complete this requirement
	courses except FSTY 310-3 Forest		with your Student Advisor. Depending on course
Economics.			selection, students may be able to complete
			some or all of this requirement at CMTN.
All upper division NPEN	VI courses except NREM 306-3 Society,	_	
Policy and Administrati			To be completed at UNBC
All upper-division NRES			·
8) Eligible courses for	the Physics Area of Specialization		
	courses except PHYS 307-3 Selected		\neg To be completed at LINDC
Topics in Environmental Physics.			To be completed at UNBC
Elective and Academic	Breadth Requirement		
Elective credit hours as	necessary to ensure completion of a		* Please discuss how to complete this requirement
minimum of 120 credit	hours, including any additional credit		with your Academic Advisor. Depending on course
hours necessary to me	et the Academic Breadth requirement of		selection, students may be able to complete
the University (see Aca	demic Regulation 15).		some or all of this requirement at CMTN.
BSc (Integrated) (Coast	t Mountain College Degree		
Completion Program)			
This 60 credit-hour pro	gram of study is available only to		
students who have con	npleted an Associate of Science		
Degree - Environmenta	al Geosciences Specialization from		
Coast Mountain Colleg	e.		
Degree Requirements:			
	lege Associate of Science Degree -		
Environmental Geoscie	ences Specialization (minimum		
Cumulative GPA of 2.0)			

UNBC UNIVERSITY OF NORTHERN BRITISH COLUMBIA			
UNBC BSc (Integrat	UNBC BSc (Integrated) Degree Calendar requirements continued:		
	rs of required courses, as follows: Geographical Information Systems Environmental and Professional Ethics Professional Writing Undergraduate Report		To be completed at UNBC
 3. Three credit hours of any level of Humanities and Social Sciences 4. Eighteen credit hours in each of two Areas of Specialization (Specialization in Biology, Ecology, and Biochemistry & Molecular Biology and Specialization in Environmental and Earth Sciences): Required courses for the Biology, Ecology and Biochemistry & Molecular Biology Area of Specialization: 			* 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 CMTN.
300 Level BIOL 301-3	Systematic Botany		* Can be completed at CMTN, BIOL 203 and BIOL 204
BIOL 307-3	Ichthyology and Herpetology	<u>۲</u>	
400 Level			
BIOL 402-3	Aquatic Plants		To be completed at UNBC
BIOL 406-3	Fish Ecology		
BIOL 411-3	Conservation Biology		
BIOL 414-3	Fisheries Management		
Total: 18 credit ho	-		
Required courses for the Environmental and Earth Sciences Area of Specialization:			
•	urs of the following eight courses:		
ENPL 305-3	Environmental Impact Assessment		
ENSC 308-3	Northern Contaminated Environments		
ENSC 404-3	Waste Management		
ENGR 451-3	Groundwater Hydrology		To be completed at UNBC
FSTY 425-3	Soil Formation and Classification		
GEOG 312-3	Geomorphology of Cold Regions		
GEOG 320-3	Sedimentology		
GEOG 411-3	Quaternary and Surficial Geology		
Total: 18 credit h			
			* Please discuss how to complete this requirement
5. Elective credit hours in any subject as necessary to ensure completion of a minimum of 60 credit hours.		}	with your Student Advisor. Depending on course selection, students may be able to complete some or all of this requirement at CMTN.

⁵ 2017/18 UNBC Academic Calendar year. 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

 $^{\rm 6}$ Must have a C- or better at CMTN to use as a prerequisite at UNBC.

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."