

From: **Coast Mountain College (CMTN)**
Associate of Science Degree, General Studies

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

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 declare their major in Chemistry at UNBC.

CMTN Requirement Applicable to ASc	CMTN Course	CMTN Course Name	UNBC Equivalence ^{1&2&3}
6 Credits in First Year English	University Transfer Credit Needed		
	University Transfer Credit Needed		
6 Credits in Mathematics (which shall include at least 3 credits in Calculus)	MATH 101 ⁴	Calculus I	MATH 100-3 ⁴
	MATH 102 ⁴	Calculus II	MATH 101-3 ⁴
36 Credits in Science (which shall include at least 3 credits in a Laboratory Science)	BIOL 101	Introductory Biology I	} BIOL 103-3, BIOL 123-1, BIOL 104-3, BIOL 124-1
	BIOL 102	Introductory Biology II	
	CHEM 101	Introductory Chemistry I	CHEM 100-3 and CHEM 120-1
	or CHEM 121	Principles of Chemistry I	CHEM 100-3 and CHEM 120-1
	CHEM 102	Introductory Chemistry II	CHEM 101-3 and CHEM 121-1
	or CHEM 122	Principles of Chemistry II	CHEM 101-3 and CHEM 121-1
	CPSC 113 ⁴	Comp Programming/Lego Robot	CPSC 100-4 ⁴
	PHYS 101	Introduction to Physics I	PHYS 100-4
	or PHYS 121	Advanced Physics I: Classical	PHYS 110-4
	PHYS 102	Introduction to Physics II	PHYS 101-4
	or PHYS 122	Advanced Physics II: Electrical	PHYS 111-4
	CHEM 230	Organic Chemistry I	CHEM 201-3 and CHEM 250-1
	CHEM 231	Organic Chemistry II	CHEM 203-3 and CHEM 251-1
BIOL 206	Cell Structure and Function	CHEM 204-3 and CHEM 2XX-1	
	University Transfer Credit Needed		
	University Transfer Credit Needed		
6 Credits in Arts other than English (excluding Math and Lab based science courses)	University Transfer Credit Needed		
	University Transfer Credit Needed		
6 Credits in Arts, Science, or other areas	Math 235 ⁴	Linear Algebra	MATH 220-3 ⁴
	University Transfer Credit Needed		

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

³ 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.

⁴ Must have a C- or better at CMTN to use as a prerequisite at UNBC.

Sample of **UNBC Calendar** requirements for the Chemistry major and how CMTN Associate of Science Degree in General Studies coursework *may be* used towards completion of the degree at UNBC⁵:

UNBC Calendar Information	CMTN Equivalence
The minimum requirement for completion of a Bachelor of Science with a major in Chemistry is 128 credit hours.	
Lower-Division (100 Level)	
BIOL 103-3 Introductory Biology I	} ✓ Completed at CMTN, BIOL 101 and BIOL 102
BIOL 123-1 Introductory Biology I Lab	
BIOL 104-3 Introductory Biology II	
BIOL 124-1 Introductory Biology II Lab	
CHEM 100-3 General Chemistry I	} ✓ Completed at CMTN, CHEM 101 or CHEM 121
CHEM 120-1 General Chemistry Lab I	
CHEM 101-3 General Chemistry II	} ✓ Completed at CMTN, CHEM 102 or CHEM 122
CHEM 121-1 General Chemistry Lab II	
CPSC 100-4 Computer Programming I or CPSC 110-3 Introduction to Computer Systems and Programming	} ✓ Completed at CMTN, CPSC 113
MATH 100-3 ⁶ Calculus I or MATH 105-3 ⁶ Enriched Calculus	} ✓ Completed at CMTN, MATH 101 ⁶
MATH 101-3 ⁶ Calculus II	} ✓ Completed at CMTN, MATH 102 ⁶
PHYS 100-4 Introduction to Physics I or PHYS 110-4 Introductory Physics I: Mechanics	} ✓ Completed at CMTN PHYS 101 or PHYS 121
PHYS 101-4 Introduction to Physics II or PHYS 111-4 Introductory Physics II: Waves and Electricity	} ✓ Completed at CMTN PHYS 102 or PHYS 122
PHYS 110-4 and PHYS 111-4 are strongly recommended.	
Lower Division (200 Level)	
CHEM 200-3 Physical Chemistry I	□ To be completed at UNBC
CHEM 201-3 Organic Chemistry I	} ✓ Completed at CMTN, CHEM 230
CHEM 250-1 Organic Chemistry Lab I	
CHEM 202-3 Inorganic Chemistry I	□ To be completed at UNBC
CHEM 203-3 Organic Chemistry II	} ✓ Completed at CMTN, CHEM 231
CHEM 251-1 Organic Chemistry Lab II	
CHEM 204-3 Introductory Biochemistry	✓ Completed at CMTN, BIOL 206
CHEM 210-3 Analytical Chemistry I	□ To be completed at UNBC
MATH 220-3 ⁶ Linear Algebra	✓ Completed at CMTN, MATH 235 ⁶
<i>One of:</i>	
MATH 200-3 ⁶ Calculus III	} □ To be completed at UNBC
STAT 371-3 ⁶ Probability and Statistics for Scientists and Engineers	

UNBC Chemistry major Calendar requirements continued:

Upper-Division (300 Level)

CHEM 300-3 Physical Chemistry II
 or CHEM 305-3 Physical Chemistry III
 CHEM 310-3 Analytical Chemistry II
 or CHEM 311-3 Analytical Chemistry III
 CHEM 315-3 Physical Chemistry Lab
 CHEM 320-3 Inorganic Chemistry II
 or CHEM 321-3 Inorganic Chemistry III
 CHEM 322-3 Inorganic Chemistry Lab

Upper Division (400 Level)

CHEM 401-3 Chemistry Seminar
 CHEM 406-3 Advanced Laboratory I
 CHEM 407-3 Advanced Laboratory II
 Nine credit hours of 300- or 400-level Chemistry *
 Three credit hours of 400-level Chemistry *

Note: Up to 6 credit hours from BCMB 306-3, BCMB 307-3, BCMB 308-3, BCMB 330-3, BCMB 340-3, BCMB 401-3, BCMB 402-3, BCMB 403-3, BCMB 405-3 or BCMB 409-3 may be used to satisfy these requirements.

*A minimum of four courses must be completed.

Elective and Academic Breadth Requirement

Elective credit hours as necessary to ensure completion of a minimum of 128 credit hours, including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15). A maximum of three credit hours from Continuing Studies may be used towards the elective credits. A total of 54 credit hours of upper-division study (300- and 400-level courses) must be successfully completed to meet degree requirements.

To be completed at UNBC

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

⁵ 2016/17 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

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."