

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

To: **University of Northern BC (UNBC)**
Bachelor of Science (BSc Degree, Physics 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 Physics 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)	CHEM 101 or CHEM 121	Introductory Chemistry I Principles of Chemistry I	CHEM 100-3 and CHEM 120-1 CHEM 100-3 and CHEM 120-1
	PHYS 121	Advanced Physics I: Classical	PHYS 110-4
	PHYS 122	Advanced Physics II: Electrical	PHYS 111-4
	CPSC 113 ⁴	Comp Programming/Lego Robot	CPSC 100-4 ⁴
	24 University Transfer Credits 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.

Additional CMTN Recommended Courses

CMTN Courses	Specifics	UNBC Equivalence³ Used towards this BSc Requirement
CHEM 102	Introductory Chemistry I	CHEM 101-3 and CHEM 121-1
CHEM 122	Principles of Chemistry II	CHEM 101-3 and CHEM 121-1

Note: Fulfills UNBC Requirements

Sample of **UNBC Calendar** requirements for the Physics 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
<p>The minimum requirement for completion of a Bachelor of Science degree with a major in Physics is 120 credit hours.</p>	
<p>Lower Division (100 Level)</p>	
<p>CHEM 100-3 General Chemistry I</p>	<p>✓ Completed at CMTN, CHEM 101 or CHEM 121</p>
<p>MATH 100-3⁶ Calculus I or MATH 105-3⁶ Enriched Calculus</p>	<p>✓ Completed at CMTN, MATH 101⁶</p>
<p>MATH 101-3⁶ Calculus II</p>	<p>✓ Completed at CMTN, MATH 102⁶</p>
<p>PHYS 110-4 Introductory Physics I: Mechanics</p>	<p>✓ Completed at CMTN, PHYS 121</p>
<p>PHYS 111-4 Introductory Physics II: Waves and Electricity</p>	<p>✓ Completed at CMTN, PHYS 122</p>
<p>CPSC 100-4 Computer Programming I or CPSC 110-3 Introduction to Computer Systems and Programming</p>	<p>✓ Completed at CMTN, CPSC 113⁶</p>
<p>Lower Division (200 Level)</p>	
<p>MATH 200-3⁶ Calculus III</p>	<p>□ To be completed at UNBC</p>
<p>MATH 201-3⁶ Introduction to Complex Analysis</p>	<p>□ To be completed at UNBC</p>
<p>MATH 220-3⁶ Linear Algebra</p>	<p>✓ Completed at CMTN, MATH 235⁶</p>
<p>MATH 230-3⁶ Linear Differential Equations and Boundary Value Problems</p>	<p>□ To be completed at UNBC</p>
<p>PHYS 200-3 Thermal Physics</p>	<p>□ To be completed at UNBC</p>
<p>PHYS 202-4 Electromagnetism and Optics</p>	<p>□ To be completed at UNBC</p>
<p>PHYS 205-3 Modern Physics I</p>	<p>□ To be completed at UNBC</p>
<p>Four additional credit hours of Physics at the 200 level.</p>	<p>□ To be completed at UNBC</p>
<p>Upper Division (300 Level)</p>	
<p>MATH 336-3⁶ Intermediate Differential Equations</p>	<p>□ To be completed at UNBC</p>
<p>PHYS 300-3 Classical Mechanics</p>	<p>□ To be completed at UNBC</p>
<p>PHYS 302-3 Quantum Mechanics I</p>	<p>□ To be completed at UNBC</p>
<p>PHYS 310-3 Classic Electromagnetism I</p>	<p>□ To be completed at UNBC</p>
<p>Upper Division (400 Level)</p>	
<p>PHYS 400-3 Quantum Mechanics II</p>	<p>□ To be completed at UNBC</p>
<p>PHYS 401-3 Seminar on Contemporary Topics in Physics</p>	<p>□ To be completed at UNBC</p>
<p>PHYS 407-3 Statistical Mechanics</p>	<p>□ To be completed at UNBC</p>
<p>Nine additional credit hours of Physics at the 300 or 400 level.</p>	<p>□ To be completed at UNBC</p>
<p>Elective and Academic Breadth Requirement</p>	
<p>Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours, including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).</p>	<p>* 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.</p>

UNBC Physics major Calendar requirements continued:

Recommended electives include:

CPSC 101-4	Computer Programming II
CHEM 101-3	General Chemistry II
CHEM 200-3	Physical Chemistry I
MATH 335-3 ⁶	Numerical Analysis I
STAT 371-3 ⁶	Probability and Statistics for Scientists and Engineers

} * 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

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

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."