

From: **Langara College (LANG)**  
Associate of Science Degree, Chemistry

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

The following list of course equivalents will appear on the transfer credit summary for students who have successfully completed **Langara College's Associate of Science Degree, Chemistry** coursework and are successfully admitted to the **Bachelor of Science, major in Biochemistry and Molecular Biology degree at UNBC for the 2023-2024 Academic Calendar**.

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

Within the minimum 60 credits, students must complete:

1. 6 credits of MATH which shall include at least one course (3 credits) in Calculus:
2. a minimum of 36 credits of science, which shall include at least:
  - a. 3 credits in laboratory science;
  - b. A minimum of 18 credits in science at the second-year level taken in two or more subject areas;
3. 6 credits of first-year ENGL;
4. 6 credits of first or second year arts other than ENGL (excluding MATH and laboratory-based science courses);
5. a minimum of 6 credits of first or second year arts, science or other university-transfer courses. (Students may include university-transfer credit from career program and KINS and RECR course offerings); and
6. a minimum cumulative GPA of 2.0.

No course may be used to meet more than one of the specific requirements.

Applicable to Chemistry	LANG Course Name	UNBC Equivalence <sup>1</sup>	
Within the framework of the general requirements for the Associate of Science Degree (above), students must complete a minimum of 60 credits including:			
All of	CHEM 1120	General Chemistry I	CHEM 100-3, CHEM 101-3, CHEM 120-1 & CHEM 121-1 <sup>2</sup>
	CHEM 1220	General Chemistry II	CHEM 100-3, CHEM 101-3, CHEM 120-1 & CHEM 121-1 <sup>2</sup>
	CHEM 2208	Coordination Chemistry	CHEM 202-3
	CHEM 2222	Analytical Chemistry	CHEM 210-3
	CHEM 2316	Organic Chemistry I	CHEM 201-3, CHEM 250-1
	CHEM 2416	Organic Chemistry II	CHEM 203-3, CHEM 251-1
	MATH 2362	Linear Algebra	MATH 220-3 <sup>3</sup>
	MATH 2371	Calculus III	MATH 2XX-3
	PHYS 1225	Physics II with Calculus	PHYS 111-4
One of	ENGL 1123	Introduction to Academic Writing	ENGL 170-3
	ENGL 1127	Essay Writing and Short Prose Sections	ENGL 170-3 or ENGL 1XX-3
	ENGL 1128	Short Prose Sections and Composition	ENGL 170-3 or ENGL 1XX-3
One of	ENGL 1129	Modern Novel, Poetry, and Drama	ENGL 100-3
	ENGL 1130	Modern Novel, Poetry, and Film	ENGL 1XX-3
One of	MATH 1153 & MATH 1253 & MATH 1271	Introduction to Calculus I (Part I) Introduction to Calculus I (Part II) Calculus II	MATH 1XX-3 MATH 1XX-3 MATH 101-3 <sup>3</sup>
or	MATH 1171 & MATH 1271	Calculus Calculus II	MATH 100-3 <sup>3</sup> MATH 101-3 <sup>3</sup>

**Continued:**

or

MATH 1173 & MATH 1183 & MATH 1273 & MATH 1283	Calculus I with Computer Explorations Computer Explorations for Calculus I Calculus II with Computer Explorations Computer Explorations for Calculus II	MATH 100-3 <sup>3</sup>  MATH 101-3 <sup>3</sup>
One of PHYS 1101 PHYS 1125	Physics I for Life Sciences Physics I with Calculus	PHYS 1XX-4 PHYS 110-4

Note: Above based on the Langara 2023 website.

**Recommended Courses to take:**

LANG Courses	LANG Course Name	UNBC Equivalence <sup>1</sup>
BIOL 1115	General Biology I	BIOL 103-3 & BIOL 123-1
BIOL 1215	General Biology II	BIOL 104-3 & BIOL 124-1
BIOL 2370	Microbiology	BIOL 203-3
BIOL 2330	Genetics	BIOL 210-3
BIOL 2315	Biochemistry	CHEM 204-3 & BCMB 2XX-1 <sup>4</sup>
BIOL 2415	Cell Biology	BIOL 311-3 <sup>4</sup>
MATH 1171	Calculus	MATH 100-3 <sup>3</sup>
MATH 1271	Calculus	MATH 101-3 <sup>3</sup>
PHYS 1125	Physics I with Calculus	PHYS 110-4

<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> Both LANG CHEM 1120 & CHEM 1220 must be taken to receive noted credit.

<sup>3</sup> Must achieve a C- (60% at UNBC) or better for all Math transfer credit to use as a prerequisite for UNBC coursework.

<sup>4</sup> Students must take both LANG BIOL 2315 & LANG BIOL 2415 to receive credit for UNBC CHEM 204-3, UNBC BCMB 2XX-1 and UNBC BIOL 311-3. If students only take LANG BIOL 2315, they can receive credit for UNBC CHEM 204-3 & UNBC BCMB 2XX-1.

**Top 10 things you should know and do for a successful, smooth transfer to UNBC:****1. Haven't applied to UNBC and have questions?**

Contact [futurestudents@unbc.ca](mailto:futurestudents@unbc.ca) or visit <https://unbc4u.unbc.ca>. Our UNBC Recruitment team is happy to answer questions and help you apply to your desired program.

**2. Once you have been admitted and have received your Transfer Credit Summary, touch base with your Student Advisor.**

Your Student Advisor can help discuss how your transfer credits will be applied towards your UNBC program, any and all resources available to you and ultimately guide you through things you might not know about transferring to UNBC! Don't know who your student Advisor is? Find out here:

<https://www2.unbc.ca/advising/contact>

**3. Read carefully through all the details of your Pathway (this document).**

We have included many details in this document about multiple aspects of the transfer process. Have a question? Email [transfercredit@unbc.ca](mailto:transfercredit@unbc.ca).

**4. Use the BC Transfer Guide!**

The BC Transfer Guide ([www.bctransferguide.ca](http://www.bctransferguide.ca)) allows you to search how your post-secondary coursework might transfer to UNBC. In conjunction with your pathway document, we highly recommend using the BC Transfer Guide to explore how your previous post-secondary courses might transfer to UNBC!

**5. Know what 'Academic Calendar' means.**

When admitted to UNBC, you are following the program requirements of the Academic Calendar of your admit year. For example, if you are admitted for September 2022, you will be following the 2022-2023 Academic Calendar throughout the entirety of your undergraduate degree. Please ensure you are not simply "Googling" your program requirements but using the appropriate Academic Calendar by visiting [www.unbc.ca/calendar](http://www.unbc.ca/calendar). **To learn more about your academic calendar, touch base with your Student Advisor.**

**6. Hold onto your previous institution's course outlines!**

It's very possible that you have taken a course that needs to be reviewed. If this is the case, we may ask for course outlines in order to give you the most accurate and up-to-date information. Additionally, if you receive 'UNSP' credit as the course has never been reviewed, you can submit your course outlines to [transfercredit@unbc.ca](mailto:transfercredit@unbc.ca).

**7. Understand the terminology!**

Not sure what 'UNSP' means? Confused by the course numbering assigned to your transfer credit (ie. 2XX)? Be sure to visit our Transfer Credit Definitions page to learn more about your transfer credit: <https://www2.unbc.ca/registrar/transfer-credit-definitions>

**8. Be Patient!**

Great things take time. Similarly, it can take up to 6 weeks for courses to be articulated once you have submitted course outlines.

**9. Understand your Degree Evaluation!**

Your Degree Evaluation is available once course registration opens/is open for your first semester at UNBC. Your degree evaluation organizes your course work for you, showing you how your transfer credit is being used and can help you track your progress to graduation. <https://www2.unbc.ca/advising/understanding-your-degree-evaluation>

**10. Want to find out how many courses you have remaining to complete a Bachelor's degree?**

Completing a two-year program does not automatically mean that you will only have 2 years remaining of a Bachelor's degree. The remaining coursework is very subjective as each transfer student might have taken different courses. This means that it is very possible that you may have to take first year courses at UNBC. For a smooth transfer into the program, we highly recommend completing any courses listed under the 'Recommended Courses to take' section of the pathway if applicable. Contact your Student Advisor for more information!

**Additional Questions? Here's who to contact:**

Admissions – [admissions@unbc.ca](mailto:admissions@unbc.ca)

Transfer Credit – [transfercredit@unbc.ca](mailto:transfercredit@unbc.ca)

Degree Evaluation and Advising Questions:

- Find out who your Advisor is: <https://www2.unbc.ca/advising/contact>
- Then reach out and send them an email!

**We are looking forward to seeing you at UNBC!**