



NLC Certificate in Engineering Planning Worksheet*

Fall Semester

Course Name	Description	Completed	Grade	Credit
CHEM 103	<i>Fundamentals of Chemistry I</i>			4
CPSC 122	<i>Introduction to Object Oriented Programming C++</i>			3
ENGL 100	<i>Academic Writing</i>			3
MATH 101	<i>Calculus I</i>			3
PHYS 103	<i>Mechanics (Calculus)</i>			4

Winter Semester

Course Name	Description	Completed	Grade	Credit
**NCIT 212 OR CHEM 104	<i>Object Oriented Programming II (UVIC Transfer)</i> OR <i>Fundamentals of Chemistry II (U of Alberta Transfer)</i>			3 4
ENGL 110	<i>Introduction to Workplace Communications</i>			3
MATH 102	<i>Calculus II</i>			3
MATH 152	<i>Introductory Linear Algebra</i>			3
PHYS 104	<i>Electromagnetism and Waves (Calculus)</i>			4

Total Credits:

/30+

***Note:** Students can seek advice on academic planning from the Program Chair. Ultimately, it is the responsibility of the student to register for courses and to ensure that they have the pre-requisite courses where necessary as found on the NLC website at <http://www.nlc.bc.ca/Programs/All-Courses>. Not all courses are offered every year. To ensure availability of courses, we recommend that students consult NLC's Fall and Winter Academic timetables at <http://www.nlc.bc.ca/Programs/Academic-and-Vocational-Programs/University-Arts-and-Sciences-Timetables>.

****Note for students applying to other institutions:**

Northern Lights College has a transfer agreement with the University of Alberta and the University of Victoria. For course-by-course transfer to other institutions in British Columbia, students may consult the BC Transfer Guide.

It is the student's responsibility to determine the courses required by the institution to which they hope to apply their NLC credits.

Link to U of A agreement:

http://www.nlc.bc.ca/Portals/0/documents/Programs/UofA_Transfer_Pathway.pdf?ver=2017-12-20-093326987

Link to UVIC agreement:

http://www.nlc.bc.ca/Portals/0/documents/Programs/UVic_Transfer_Pathway.pdf?ver=2017-10-26-170710-053



The following table presents all first-year Engineering course requirements at the U of A, showing how NLC courses may or may not be used for transfer equivalency during the 2018-2019 academic year:

Table of U of A and NLC Course Equivalencies

U of A Faculty of Engineering Course	NLC Course	U of A Engineering Unit Weight	
CHEM 103	CHEM 103	4.3	
CHEM 105	CHEM 104	3.8	
EN PH 131	PHYS 103 ¹	4.3	
ENCMP 100	CPSC 122	3.8	
ENGG 100	NLC course not applicable: NLC transfer students take ENGG 100 at the U of A in Year 2	1.0	
ENGG 101	NLC course not applicable: NLC transfer students granted unassigned credit as part of transfer agreement	1.0	
ENGG 130 (must be taught by Engineer)	NLC course not applicable: NLC transfer students take ENGG 130 at U of A in Year 2	4.0	
MATH 100	MATH 101 and MATH 102 ²	3.5	
MATH 101	MATH 101 and MATH 102 ²	3.5	
MATH 102	MATH 152	3.5	
PHYS 130	PHYS 104	3.8	
Complementary Studies Elective	ECON 105 or ENGL 110 or ENGL 112 or FNST 100 or HIST 103 or HIST 104 or PHIL 110 or PHIL 111 or POLI 100 or POLI 101 or WGST 100	3.0	
ENGL 199	ENGL 100	3.0	42.5 units in total. Maximum of 37.5 units acquired by NLC transfer students

¹ NLC's PHYS 103 must, at a minimum, be co-taught by a certified Engineer who addresses various curricular applications to Engineering: rotational motion, the effect of vibration on structure, mechanics, etc. The Engineer must deliver approximately 9—10 hours of lecture-based course content.

² Students must complete *both* Math 101 and Math 102 at NLC with a minimum grade of C minus in order to receive credit for Math 100 and Math 101 at the U of A. Students who do not complete both with the minimum grade will not receive credit for either U of A course even if a transferable grade has been achieved in one.