

**Courses Transferrable from University College of the North
to
U of Manitoba Engineering Program**

University College of the North Course		Year	Civil	Mech	Elec	Comp	Bio sys	University of Manitoba Equivalent	
Course Code	Course Name							Course Code	Course Name
CHE 1005	Intro to Chemistry 1	Year 1	3	3	3	3	3	CHEM1300	University Chemistry 1
ENG 1015	Maj Works & Authors of 20 th Century	Year 1	3	3	3	3	3	ENGL 1200	Rep Lit Works
MSC 1510&1520	Calculus 1&2	Year 1	3	3	3	3	3	MATH 1510	Applied Calculus 1
	Year 1 Arts or Management – CSE #1	Year 1	3	3	3	3	3		Year 1 Complimentary Studies Elective – see table for list of possibilities
ASC1005L	Statics	Year 1	3	3	3	3	3	ENG 1440	Engineering Statics
MAT 1020L	Applied Calculus 1	Year 1	3	3	3	3	3	MATH 1510	Applied Calculus 1
ACS 1000L	Applied Thermal Science	Year 1	3	3	3	3	3	ENG 1460	Thermal Sciences
CSC 1005	Intro Computer Programming	Year 1	3	3	3	3	3	COMP 1012	Computer Prog for Scientists and Engineers
MAT 1008L	Linear Algebra	Year 1	3	3	3	3	3	MATH 1210	Tech of Classical & Linear Algebra
ECT 2381 & 2481	Electronic Devices 1 & 2	Year 2			5	5		ECE 2160	Electronics 2E
	Year 1 Arts or Management – CSE #2	Year 2	3	3	3	3	3		Complimentary Studies Elective – see table for list of possible courses
	Year 1 Arts or Management – CSE #3 (Biosystems only)						3		
CHE 1006	Intro to Chemistry 2	Year 2	3	3			3	CHEM 1310	University Chemistry 2
BIO 1400	Anatomy of the Human Body	Year 2					3	BIOL 1410	Anatomy of Human Body
BIO 1401	Physiology of the Human Body	Year 2					3	BIOL 1412	Physiology of the Human Body
	Natural Science Elective				3	3			Natural Science Elective – See list of possible courses
	Natural Science Elective					3			See list of possible courses
	Free Elective (Biosystems only)						3		See list of possible courses
	Free Elective (Biosystems only)						3		See list of possible courses
	Total No. of Courses Transferred		8	8	9	10	13		
	Total Number of Credit Hours Transferred		21	21	26	29	36		
	Approx. total Number of Credit Hours in Program (min.)		164	157-159	159-160	157-161	152-154		

Special Note: Each student transferring must have CEAB/AU calculations completed to ensure compliance.

Possible Computer and Electrical Engineering Natural Science Electives:

University Coll of the North		University of Manitoba Equivalent		
Course	Credit Hrs.	Course	Credit Hrs.	Comments
CHE 1006 Intro To Chemistry II	3	CHEM 1310 Intro Phys Chem	3	Last assessed Fall 2013
BIO 1400 Anatomy of the Human Body	3	BIOL 1410 Anat Human Body	3	Last assessed Fall 2014
BIO 1005/6/2005 Intro Biol I/II & Elmnts Hrdty	9	BIOL 1020 Bioprinciples	3	Last assessed Fall 2015 BIO 1005 & 1006 & 2005 TOGETHER ARE EQUIVALENT TO BIOL 1020 & BIOL 1030.
ZOO 1000 Anatomy of the Human Body	3	BIOL 1410 Anat Human Body	3	Last assessed Fall 2013

Possibilities for Complimentary Studies Electives:

University Coll of the North		University of Manitoba Equivalent		
Course	Credit Hrs.	Course	Credit Hrs.	Comments
MGT 1200 Microeconomics	3	ECON 1010 Intro Microeconomics	3	Last assessed Winter 2012
MGT 1210 Macroeconomics	3	ECON 1020 Intro Macroeconomics	3	Last assessed Winter 2012
PHI 1002 Introduction To Philosophy	3	PHIL 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2014
PHI 1003 Intro To Social Ethics	3	PHIL 2XXX Transfer 2000 Lvl	3	Last assessed Fall 2015
ANS 2200 Hist Fur Trade & Ab: 1600-1870	3	HIST 2XXX Transfer 2000 Lvl	3	Last assessed Fall 2012
HIS 1000 Canadian History: Pre-Confed	3	HIST 1390 Col C 1500-1885	3	Last assessed Fall 2013
HIS 1001 Canadian History: Post-Confed	3	HIST 1400 Can Nat Si 1867	3	Last assessed Fall 2013
HIS 1010 Intro To History	3	HIST 1XXX Transfer 1000 Lvl	6	Last assessed Fall 2013
HIS 2100 Modern Western Civilization I	3	HIST 1XXX Transfer 1000 Lvl	3	Last assessed Fall 2013
HIS 2400 Us History:Beginnings To 1865	3	HIST 2750 U.S. History Before 1877	3	Last assessed Fall 2015
HIS 2450 Us History-1865 To Present	3	HIST 2760 Us From 1877	3	Last assessed Fall 2013
ABS 1001 Tradition & Change:Abor Persp	1	NATV 1XXX Transfer 1000 Lvl	1	Last assessed Winter 2011
ABS 1700 First Nations Lang & Gov	3	NATV 1220 Nat Peop Can I	3	Last assessed Winter 2016
ANS 1000 Intro To Aboriginal Studies I	3	NATV 1220 Nat Peop Can I	3	Last assessed Fall 2013
ANS 1001 Intro To Aboriginal Studies II	3	NATV 1240 Nat Peop Can II	3	Last assessed Fall 2013
ANS 1100 Intro To Cree Language I	3	NATV 1250 Intro Cree I	3	Last assessed Fall 2015
ANS 1101 Intro To Cree Language II	3	NATV 1260 Intro Cree II	3	Last assessed Fall 2015
PSY 1000 Intro To Psychology	6	PSYC 1200 Introduction	6	Last assessed Fall 2015
SOC 3030 The Reformation	3	RLGN 2XXX Transfer 2000 Lvl	3	Last assessed Fall 2015
SOC 1000 Sociology	6	SOC 1200 Introduction	6	Last assessed Fall 2014

Possibilities for Free Elective in Biosystems Program (can also include any of those above):

University Coll of the North		University of Manitoba Equivalent		
Course	Credit Hrs.	Course	Credit Hrs.	Comments
ENV 1005 Fdns Environmental Issues	3	ENVR 1000 Envsci Concepts	3	Last assessed Fall 2013
ENV 2005 Intro Environmental Issues	3	ENVR 2000 Envsci Issues	3	Last assessed Fall 2016
RRR 1040 Water Resources	3	ENVR 3020 Ext Field 1	3	Last assessed Winter 2011
RRR 2020 Environmental Assessment	3	ENVR 2XXX Transfer 2000 Lvl	3	Last assessed Winter 2011
RRR 2010 Geographic Information Systems	3	GEOG 2250 Intro Gis	3	Last assessed Winter 2011
RRR 2030 Map & Air Photo Interpretation	3	GEOG 3200 Int Remote Sens	3	Last assessed Winter 2011
BIO 2000 Cell Biology	3	BIOL 2520 Cell Biology	3	Last assessed Fall 2016
BIO 2010 Intro To Ecology	3	BIOL 2390 Introductory Ecology	3	Last assessed Fall 2013